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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JANUARY, 1904.

## NEVADA SECTION

OF THE

# CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU

IN COÖPERATION WITH THE

## NEVADA STATE WEATHER SERVICE

(CHARLES W. FRIEND, Director.)

ETARY OF AGRICULTURE.

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This volume is bound without Oct. 1904-annual  
summary 1905; May & the annual summary 1907;  
Sept.-Dec. 1908; Jan.-Mar. and May 1909

which ~~is~~ are unavailable. Beginning with July  
1909, the data from this section was printed  
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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU,

BY

J. H. SMITH,

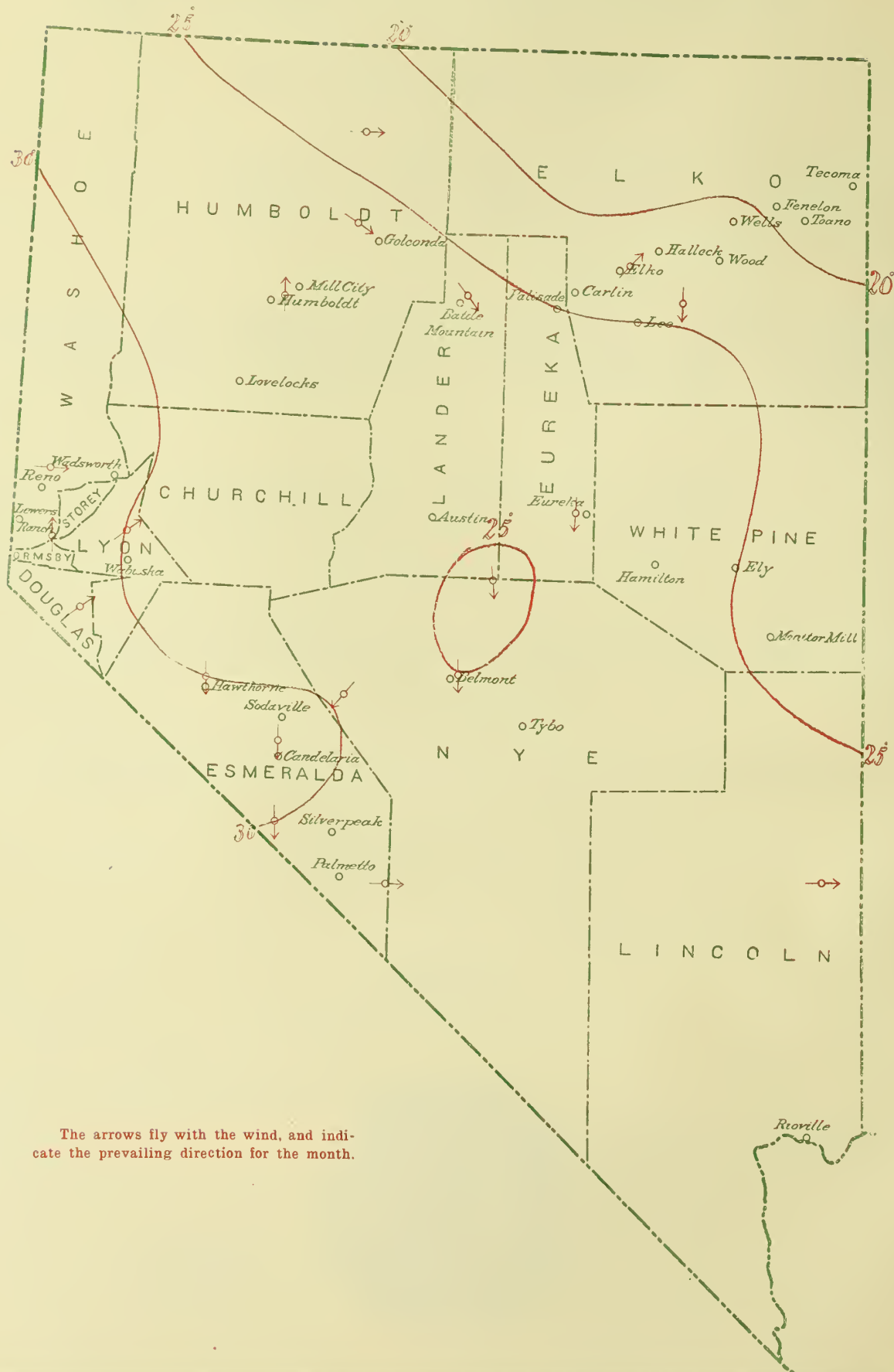
SECTION DIRECTOR,

CARSON CITY, NEVADA.





MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR JANUARY, 1904.



The arrows fly with the wind, and indicate the prevailing direction for the month.



# U. S. DEPARTMENT OF AGRICULTURE CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION.

J. H. SMITH, Section Director.

CARSON CITY, NEVADA.

VOL. XVIII.

CARSON CITY, NEVADA.

No. 1.

### SUMMARY OF WEATHER CONDITIONS.

The weather in Nevada during the month was generally clear, moderately cold and remarkably dry. There was much bright sunshine, especially during the last half of the month, and the rain or snow occurring being mostly light in all districts. High winds prevailed in the western part of the State on the 10th and 16th, but no damage resulted. The storms of the month occurred about the 4th, 17th, 18th and 19th, with fine weather prevailing during the intervening periods. The maximum temperature occurred at the majority of stations on the 30th and 31st, and the minimum about the 20th.

The winter range feed was fairly good throughout the State and stock of all kinds were in satisfactory condition at the close of the month.

### CLIMATOLOGY OF THE MONTH.

#### Atmospheric Pressure—Inches and Hundredths.

The mean atmospheric pressure for the State, reduced to sea level, as determined from the records of the United States Weather Bureau stations at Carson City and Winnemucca, Nevada, and Modena, Utah, and Independence, California, was 30.23 inches.

The highest pressure, 30.64 inches, was recorded at Carson City, on the 6th, and the lowest, 29.58 inches, at Independence, on the 17th. The absolute range of pressure for the State was 1.06 inches.

#### Temperature—Degrees Fahrenheit.

The mean temperature for the State, determined from the reports of thirty-two stations, was 27.4, which is about normal, and 4.6 lower than the mean for the corresponding month of 1903.

By sections, the means were as follows: Northern, 24.6; eastern, 25.4; central, 25.9; western, 31.0; southern, 29.7.

The highest monthly mean, 34.9, was recorded at Martin's Ranch, Douglas County.

The lowest monthly mean, 18.9, was recorded at Carlin, Elko County.

The highest temperature, 71, was recorded at Martin's Ranch, on the 14th.

The lowest temperature, -22, was recorded at Elko, on the 20th.

The absolute range of temperature for the State was 93.

The greatest local daily range of temperature was 63, at Elko, on the 14th, and the least 5, at Lewers' Ranch, on the 18th.

#### Precipitation—Inches and Hundredths.

The average precipitation for the State, as determined from the reports of all stations, was 0.53 of an inch, which is 0.78 of an inch below normal, and 1.28 inches below the average for the corresponding month of 1903.

By sections, the averages were as follows: Northern, 0.76 of an inch; eastern, 0.50 of an inch; central, 0.51 of an inch; western, 0.45 of an inch; southern, 0.12 of an inch.

The greatest monthly amount, 2.28 inches, was recorded at Lewers' Ranch, Washoe County, and the least, none, at a few stations.

The greatest amount recorded in any twenty-four consecutive hours, was 1.16 inches, at Wood, Elko County, on the 10th.

Monthly snowfalls of 5 inches or more: Palmetto, 5; Ely, 6; Carson City, 7; Battle Mountain, 11; Wells, 13; Lewers' Ranch, 16; Elko, 17; Lee, 21.

#### Relative Humidity.

Carson City—8 a. m., 79 per cent; 8 p. m., 67 per cent; monthly mean, 73 per cent.

Winnemucca—8 a. m., 83 per cent, 8 p. m., 62 per cent, monthly mean, 72 per cent.

Modena (Utah)—8 a. m., 71 per cent, 8 p. m., 47 per cent, monthly mean, 60 per cent.

#### Wind and Weather.

The prevailing direction of the wind was from the southwest.

The total movement of the wind at Carson City was 3,784 miles; Winnemucca, 6,439 miles; Modena (Utah), 6,846 miles; Independence (California), 6,401 miles.

The maximum velocity at Carson City was 52 miles per hour, from the west, on the 10th; Winnemucca, 37 miles per hour, from the northwest, on the 10th; Modena (Utah), 55 miles per hour, from the southwest, on the 18th, and 35 miles per hour, at Independence (California), from the northwest, on the 22d.

The average number of clear days was 17; partly cloudy, 6; cloudy, 8; days with .01 of an inch or more of precipitation, 3.

### COMPARATIVE TEMPERATURE AND PRECIPITATION DATA FOR JANUARY DURING THE PAST FIFTEEN YEARS.

Year.	Mean.	Temperature		Average Precipitation, Inches and hundredths.
		Highest.	Lowest.	
1890	20.4	52	-42	3.81
1891	27.6	68	-25	0.21
1892	26.7	73	-25	0.53
1893	30.4	63	-23	1.23
1894	28.0	70	-30	1.42
1895	25.9	60	-30	2.42
1896	33.9	79	-26	1.80
1897	30.2	65	-12	0.92
1898	20.1	63	-28	0.69
1899	31.8	65	-12	1.20
1900	35.7	71	-10	0.42
1901	30.1	75	-19	1.51
1902	28.4	69	-32	0.51
1903	32.0	72	-16	1.81
1904	27.4	71	-22	0.53

### MISCELLANEOUS PHENOMENA.

(Stations and Dates of Occurrence.)

Pogonip—Reno, 1st.

Dense Fog—Lee, 6th.

Rainbows—Belmont, 10th.

Solar Halos—Carson City, 23d.

Light Fog—Wood, 7th, 14th; Toano, 13th.

Thunder and Lightning—Carlin, 10th.

Lunar Halos—Candelaria, 1st; Carson City, 1st, 3d, 29th; Winnemucca, 1st, 9th, 29th.

Sleet—McAfee's Ranch, 17th, 18th; Palmetto, 17th; Lewers' Ranch, 4th, 5th; Carlin, 18th.

High Winds—Palmetto, 17th; Morey, 17th; Wadsworth, 10th; Winnemucca, 10th; Carson City, 10th, 16th.

### REMARKS OF VOLUNTARY OBSERVERS AND CLIMATE AND CROP CORRESPONDENTS.

Potts—This has been the driest winter so far that we have had in many years. No snow in the valley and only a trace in the mountains.

MISS BESSIE POTTS.

Reno—The valley was filled with fog on the morning of January 1st.

SAMUEL B. DOTEN.

Overton—No storms of any kind during the month.

POSTMASTER.

McAfee's Ranch (near Dyer)—The month has been very dry, cold and disagreeable. Range stock very poor. No snow as yet on the mountains. No crops for 1904 unless snow comes soon.

G. A. McAFEE.

Lee—Very cold weather prevailed the fore part of the month; latter part warm and mild. Snow disappearing very rapidly.

MISS JENNIE WILLIAMS.

Rebel Creek—January, 1904, has been a remarkably fine month; warm sunshiny days the most of the time, with an occasional cold night. There is considerable stock on the ranges, which is reported to be doing well.

R. McLERAN.

Paradise—Warm days and cold nights throughout the month. Two



inches of snow fell on the 21st. The winter ranges are in fair condition and stock is doing well. T. J. BRADSHAW.

Fairlawns—Fine weather prevailed throughout the month. We had a light fall of snow on the 4th. Cattle and horses are in good condition. M. PURCELL.

Bullion—First part of month foggy and cold, with occasional light falls of snow; rain on the 16th. Cattle are being fed; horses on the range doing well. F. J. FRANK.

Fallon—The month has been clear, cold and very dry. Roads dusty as summer time. Stock in fair condition, mostly on pasture or being fed. Range feed very scarce. J. W. FERGUSON.

Wadsworth—The weather during the month has been dry and cold. There have been a few light showers on the range, which benefited stock. T. G. HERMAN.

Wabuska—Weather has been clear and cold, with no snow or rain to speak of. Range stock in fair condition. J. G. YOUNG.

Pine Grove—The month has been clear, dry and cold. A light fall of snow on the 17th; very little snow in the mountains and none in the valleys; good winter for stock. E. W. STEWART.

Smith—Weather cold and dry, with the exception of one snowstorm. Very little stock out on the ranges; stock on stubble and meadow land in good condition; very little snow on the ranges. C. M. CARTER.

Shoshone—The past month has been quite dry; stock looking well.

GEO. SWALLOW.

Illipah—Cold nights and pleasant days; not much wind; some snow; range fair and stock doing well; wild horses destroying the range.

W. M. MOORMAN.

Mesquite—Month dry and bitter cold. Ranges not extra good on account of drought; live stock thin. CHARLES M. HARDY.

#### DEPTH OF SNOW IN NEVADA, JANUARY 31, 1904.

The snowfall during January has been much lighter than usual, and at the close of the month the amount of snow in the mountains was remarkably deficient in all sections. In the high Sierra there is about four feet less snow than there was a year ago at the end of January. A large deficiency is also reported at the headwaters of the Carson and Walker Rivers. The amount of snow over the Humboldt watershed is quite small, although a few correspondents report an average depth in some of the ranges.

Since the reports for this bulletin were received, heavy falls of snow in the Sierra have materially altered the conditions existing at the end of January.

#### REMARKS OF CORRESPONDENTS.

Battle Mountain—Ground frozen hard.

W. T. OWEN.

Carlin—Snowfall lighter than the previous year.

G. H. KENYON.

Golconda—Only 3 inches of snow during month.

F. W. BLOCK.

Lovelock—Farmers very much discouraged at present, but hopeful of a heavy fall of snow yet. C. L. NOBLE.

Palisade—Ranchers doubtful of next summer's water supply.

J. A. FERRARO.

Wells—Snowfall about the average for last few years.

PHIL S. TRIPLETT.

Winnemucca—Snowfall very deficient so far, and prospects are very discouraging, as both December and January were without heavy storms.

J. C. HAYDEN.

Boca—Snowfall December and January, 1902-1903, 69 inches; December and January, 1903-1904, 13 inches. A. D. TOURTILLOTTE.

Donner Lake—Snowfall very light so far this season. F. R. WILLIAMS.

Floriston—Snowfall much lighter than usual for January.

M. FLEISHACKER.

Reno—Considerable uneasiness exists among ranchers on the Truckee Meadows because of light snowfall. Water shortage for next summer is feared. SAMUEL B. DOTEN.

Tahoe—At the close of January last year there was 4 feet more snow in the mountains than we have now. H. S. WATSON.

Bodie—Very dry winter so far; only 2 inches of snow fell during January.

E. R. BROOKS.

Bridgeport—An exceedingly dry winter so far.

GEO. A. MONTROSE.

Markleeville—Snowfall during the past month much less than the average for January. POSTMASTER.

Lundy—Much less snow this year than formerly.

AL. TAYLOR.

Monte Cristo Mine—Very light snowfall so far this winter.

A. C. PRATT.

Schurz—Very little snow fell on the mountains in this vicinity during the month. D. GRAHAM.

Topaz—Snowfall very light and considerably less than the average or usual amount for January. A. D. BIRD.

Carson City—In the high Sierra the snowfall during the month has been much lighter than usual. J. H. SMITH.

Genoa—Less snow than usual for January.

W. S. JOHNSON.

Sheridan—Less snow than usual for January.

THOS. P. MACK.

Sweetwater—Have had no storms of any kind this season so far.

POSTMASTER.

Austin—Very light snowfall during month.

H. W. DYER.

Berlin—A great deal less snow than usual for January.

THOMAS K. STEVENS.

Galena—This seems to be one of the driest winters so far for many years. G. S. MOORE.

#### ACKNOWLEDGMENT.

The reports of snowfall from high altitude stations have been kindly furnished for publication by Mr. A. E. Chandler, State Irrigation Engineer of Nevada.

#### TABLE OF SNOWFALL.

Depth in Inches.

Station.	County.	Compared with average for January.	On ground at station January 31st.	At or near summit of mountains.
<i>Humboldt Watershed:</i>				
Battle Mountain.....	Humboldt	Average	0	36
Beowawe.....	Lander	Less	0	.....
Bullion.....	Elko	Less	2	15
Carlin.....	Elko	Less	1	2
Crane's Ranch.....	Elko	Average	4	30-36
Foltz.....	Humboldt	Less	0	8
Golconda.....	Humboldt	Less	0	6
Halleck.....	Elko	Average	6	.....
Humboldt.....	Humboldt	Less	0	.....
Lamoille.....	Elko	Less	0	12-14
Lovelock.....	Humboldt	Less	0	12
Mill City.....	Humboldt	Less	2	10
Palisade.....	Eureka	Less	0	6-10
Paradise.....	Humboldt	Less	2	12
Rebel Creek.....	Humboldt	Less	1	.....
Unionville.....	Humboldt	Less	0	.....
Wells.....	Elko	Average	0	.....
Winnemucca.....	Humboldt	Less	0	2-20
<i>Truckee Watershed:</i>				
Boca, Cal.....	Nevada	Less	6	.....
Floriston, Cal.....	Nevada	Less	2	8
Marlette Lake.....	Washoe	Less	17	19
Reno.....	Washoe	Less	0	30
Tahoe, Cal.....	Placer	Less	12	48
Tallac, Cal.....	Eldorado	Less	20	36
Wadsworth.....	Washoe	Less	0	.....
Glenbrook.....	Douglas	Less	3	8-10
<i>Walker Watershed:</i>				
Bodie, Cal.....	Mono	Less	0	48
Bridgeport, Cal.....	Mono	Less	0	24-36
Markleeville, Cal.....	Alpine	Less	0	36
Lundy, Cal.....	Mono	Less	9	24
Monte Cristo Mine, Cal.....	Alpine	Less	12	24
Schurz.....	Esmeralda	Less	0	2
Topaz, Cal.....	Mono	Less	0	10-12
<i>Carson Watershed:</i>				
Carson City.....	Ormsby	Less	0	8-10
Genoa.....	Douglas	Less	0	4
Dayton.....	Lyon	Less	0	3-4
<i>Reese Watershed:</i>				
Austin.....	Lander	Less	0	6
Berlin.....	Nye	Less	0	4
Galena.....	Lander	Less	0	6

#### ERRATA.

December (1903) Report—Mean minimum temperature at Fallon (page 6), 13.4, should read 13.3; Mill City, mean temperature (page 5), 25.6, should read 25.7; minimum temperature (page 5) recorded on the 1st, should be on the 2d. These errors were made in computation.



## CLIMATOLOGICAL DATA FOR JANUARY, 1904.

Stations.	Counties.	Elevation feet.	Length of record (years)	Temperature (degrees Fahrenheit).						Precipitation (inches)				Sky				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snow fall unmelted.	Number rainy days.	Number clear days.	Number partly cloudy days.			Number cloudy days.
Northern Section.																				
Battle Mountain-1	Lander	4,511	31	30.0	+2.6	61	27	-2	5	18	1.10	+0.18	0.40	11.0	5	15	5	11	SW	Agent So. Pacific Co.
Beowawe-3	Eureka	4,635	34	21.2	-4.8	46	1	-10	9		0.15	0.40	0.40	4.5	2	15	0	16		Agent So. Pacific Co.
Carlin-3	Elko	4,897	34	18.9	-1.5	45	31	-1	9		0.18	-0.94	0.10	1.0	2	21	0	10	SW	Agent So. Pacific Co.
Crane's Ranch†	Elko	5,350	17								0.87	-0.11	0.15		5	12	11	8	W	W. T. Crane
Elko-1	Elko	5,063	31	21.2	0.1	52	30	-22	20	63	1.70	+0.72	0.50	17.0	5	20	2	9	NE	C. H. Sproule
Fenelon-3	Elko	6,128	17																	
Golconda-3	Humboldt	4,392	26	26.9	-3.2	47	31	2	20		0.10	0.52	0.10	1.0	1	16	3	12		Agent So. Pacific Co.
Halleck-3	Elko	5,229	32																	Agent So. Pacific Co.
Humboldt-1	Humboldt	4,236	33	29.0	-0.9	58	31	-2	8	38	0.40	-0.41	0.25	4.5	4	22	1	8	S	Agent So. Pacific Co.
Lee	Elko		6								2.07	-1.09	0.60	21.0	6	8	12	11	N	Miss Jennie Williams
Lovelock-1	Humboldt	3,977	13	27.4	-1.3	50	6	13	8		T	-0.50	T	T	0	27	0	4		Agent So. Pacific Co.
Mill City-3	Humboldt	4,225	16	29.8	+2.6	48	16	0	8		0.20	-0.37	0.20	2.0	1					Agent So. Pacific Co.
Palisade-1	Eureka	4,821	23	24.6	+0.9	59	14	-10	6	61	0.65	-0.49	0.20		5					Agent So. Pacific Co.
Quinn River Ranch-1	Humboldt	4,850	3	25.0		51	16	1	17	48	0.60		0.25	2.5	4	15	6	10	W	F. M. Payne
Tecoma-1	Elko	4,812	27																	Agent So. Pacific Co.
Toano-3	Elko	5,975	35	19.2	-1.9	47	30	1	9		0.40	-0.47	0.40	4.0	1	8	18	5		Agent So. Pacific Co.
Wells-3	Elko	5,623	33	21.7	-0.2	48	10	-12	4		1.30	0.22	0.40	13.0	4				SW	Agent So. Pacific Co.
Winnemucca-1	Humboldt	4,432	26	27.6	+0.6	51	31	1	20	40	0.58	-0.53	0.21	4.6	2	18	8	5	SW	U. S. Weather Bureau
Wood-1	Elko	6,000	5	22.2		47	17	-6	7	37	1.64		1.16		5	12	13	6		A. H. Wiseman
Means				24.6	-0.8						0.76	-0.37		6.6	3	16	6	9	SW	
Ely-1	White Pine	6,000	17	25.4	+3.3	58	3	-6	24	54	0.50	-0.63	0.16	6.2	4	16	0	15		Chas. S. Grunditz
Means				25.4							0.50			6.2	4	16	0	15		
Central Section.																				
Austin-1	Lander	6,594	16	26.0	-0.6	46	13	4	6	30	1.01	-0.40	0.35							H. W. Dyer
Eureka-1	Eureka	6,990	2	30.2		55	18	5	20		0.45		0.15	4.5	2	10	14	7	N	Geo. L. Broy
Potts-1	Nye	6,826	12	21.4	-2.8	53	14	-11	6	49	0.08	-0.70	0.04	2.0	3	11	7	13	N	Miss Bessie Potts
Means				25.9	-1.7						0.51	-0.55		3.2	2	11	10	10	N	
Carson City-2	Ormsby	4,600	25	31.2	-1.1	60	14	-5	20	48	0.54	-2.02	0.19	7.6	7	20	10	1	SW	C. W. Friend
Carson City (W. B.)-1	Ormsby	4,720	15	31.3	-1.0	58	31	0	20	46	0.46	-2.10	0.18	6.6	5	20	6	5	S	U. S. Weather Bureau
Fallon-1	Churchill		1	26.9		56	10	0	8	51	T		T	T	0					Mrs. Ida Dolf
Glenbrook	Douglas	6,282									0.35		0.18		5	16	0	15	NW	D. Couillard
Lewers' Ranch-1	Washoe	5,200	17	32.8	+1.6	60	14	0	20	43	2.28	-1.90	0.60	16.0	7	19	12	0	SW	Mrs. Ross Lewers
Martin's Ranch-1	Douglas	4,830	6	34.9	+2.6	71	14	-1	20	60	0.20	-2.36	0.20	2.0	1	22	6	3	SW	Mrs. J. H. Martin
Reno-1	Washoe	4,484	34	31.8	+1.9	60	14	2	20	45	0.21	-1.29	0.15	1.7	3	25	4	2	W	S. B. Doten
Wabuska-1	Lyon	4,347	2	26.8		60	16	-10	21	56	0.00		0.00	0.0	0	18	12	1	SW	J. H. Harcourt
Wadsworth-1	Washoe	4,077	33	32.2	+0.2	65	31	4	7		0.05	-0.73	0.05	0.5	1	28	1	2		Agent So. Pacific Co.
Means				31.0	+0.7						0.45	-1.73		4.3	3	21	6	4	SW	
Southern Section.																				
Belmont-1	Nye	8,132	13	24.7	+1.2	50	13	3	5	34	0.08	-1.10	0.06	2.0	2	9	16	6	NE	W. N. Granger
Candelaria-1	Esmeralda	5,783	15	33.6	+2.8	53	31	8	20	34	T	-0.78	T	T	0	22	4	5	N	A. G. Draper
Hawthorne-1	Esmeralda	4,569	17	29.9	-3.7	54	10	8	6	34	T	-0.59	T	0.0	0	21	3	7	N	T. G. Waterson
McAfee's Ranch-1	Esmeralda	4,835	1	29.8		58	30	-3	26	53	T		T	0.0	0	25	3	3	N	G. A. McAfee
Morey-1	Nye	7,384	1	29.2		57	14	2	20	36	0.26		0.12	4.0	3	10	21	0	N	Jas. B. Gilmore
Palmetto-1	Esmeralda	6,500	15	28.0	+2.5	64	13	-6	6	51	0.50	-1.30	0.30	5.0	2	26	3	2	W	Wm. Oothout, Jr.
Pioche-1	Lincoln	6,100																		A. A. Carman
Sodaville-1	Esmeralda	4,665	6	32.4		58	12	5	25	40	0.00		0.00	0.0	0	17	8	6	SW	Agent So. Pacific Co.
Means				29.7	+0.7						0.12	-0.94		1.8	1	19	8	4	N	
State Means				27.4	-0.1						0.53	-0.78		4.4	3	17	6	8	SW	
Miscellaneous.																				
Modena (Utah)-1	Iron	5,470	4	25.5		59	14	-8	21	50	0.20		0.12		3	19	8	4	W	U. S. Weather Bureau
Independence (Cal.)-1	Inyo	3,721	8	42.4		66	30	21	4	33	T		T	0.0	0	18	7	6	W	U. S. Weather Bureau
Donner (Cal.)	Nevada	6,095									1.91		0.48	29.5	6	21	0	10	NW	
Independence Lake (Cal.)	Sierra										4.21		1.21	3.1	6	11	13	7	SE	C. J. Gepper
Tahoe (Cal.)	Placer	6,252									1.39		0.48		4				SW	J. U. Haley
Lundy (Cal.)	Mono										0.90		0.90	9.0	1					Al. Taylor
Bridgeport (Cal.)	Mono	6,423									0.25		0.15	4.0	2					Geo. A. Montrose
Glen Alpine (Cal.)	Eldorado										2.17		0.92	23.7	5				S	Jos. Pacilli

REFERENCES: 1, Weather Bureau maximum and minimum thermometers in use; 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed before the name of a station, or against the data in the body of the form, indicates the number of days missing from the record; for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

\* Not considered in computing State or district means.

† Postoffice—Elko. ‡ Postoffice—Franktown. § Postoffice—Gardnerville. ¶ Postoffice—Elko. ¶ Postoffice—Amos.

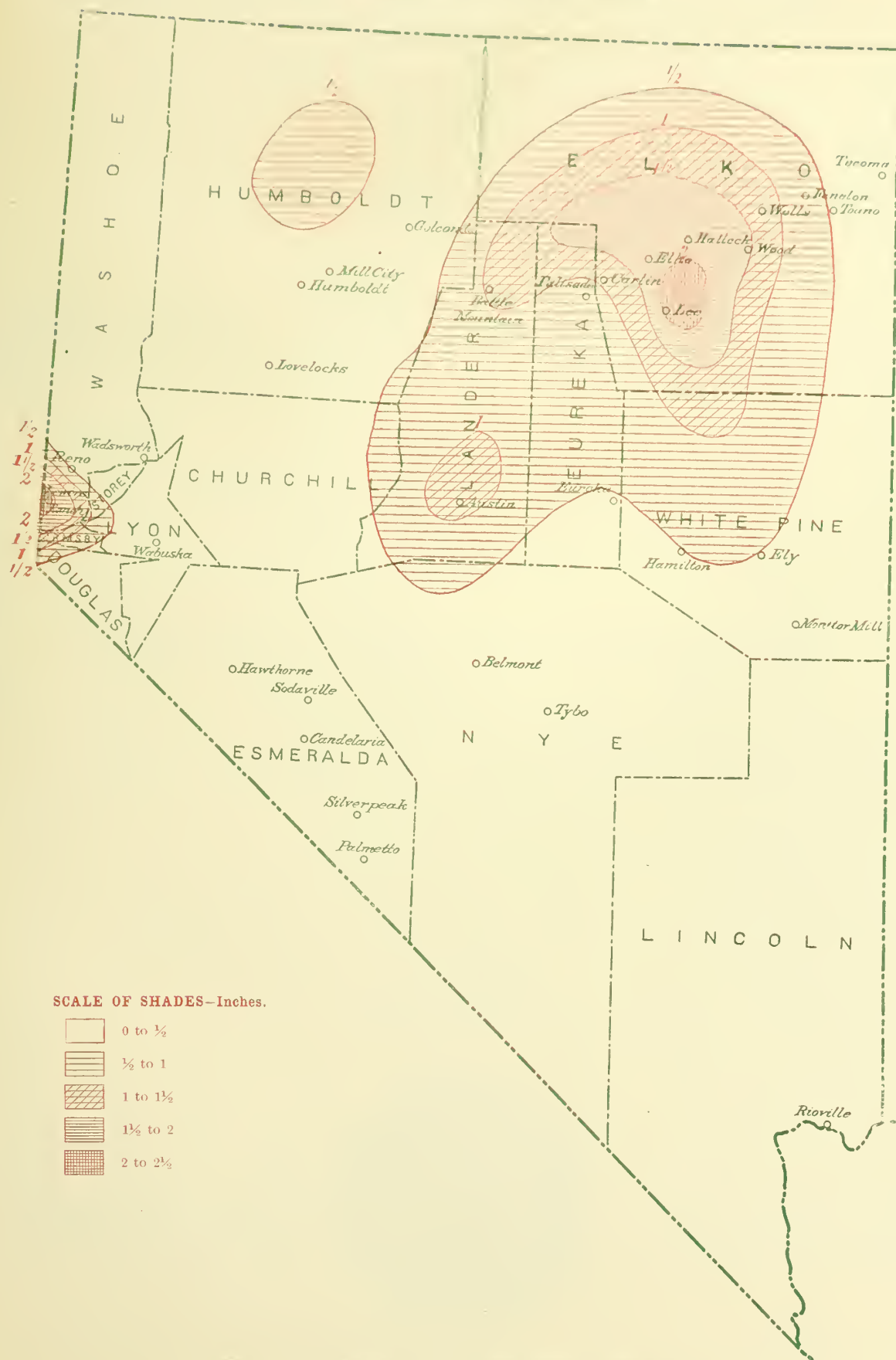


DAILY MAXIMUM AND MINIMUM TEMPERATURES FOR JANUARY, 1904.

Stations.	Day of Month.																															Monthly means.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Austin.....	Max. 36	31	35	28	22	28	35	41	33	41	42	42	46	47	46	46	45	38	27	24	30	34	34	39	38	37	34	30	34	35	38	40	36.1
Battle Mountain.....	Mm. 19	19	12	12	12	4	10	16	13	15	13	16	16	22	26	27	25	18	18	40	18	17	16	17	52	9	11	11	13	19	21	16.0	
Belmont.....	Max. 52	54	50	48	43	40	46	40	35	35	50	50	52	50	50	50	52	52	42	40	54	58	50	60	52	58	61	56	58	54	49.7		
Belmont.....	Mm. 9	11	10	4	2	6	8	11	6	8	18	20	10	8	10	10	11	9	10	19	32	32	32	38	12	17	18	16	12	14	10.3		
Caliente.....	Max. 34	35	34	36	31	34	39	41	35	35	40	45	50	48	43	41	25	24	22	19	32	35	37	38	34	34	34	37	37	38	36.2		
Caliente.....	Mm. 15	11	8	10	3	12	11	16	20	13	21	22	21	22	21	14	7	8	11	3	14	9	13	4	8	7	13	19	19	25	13.2		
Candelaria.....	Max. 41	43	39	44	35	40	40	45	44	49	51	52	51	51	50	47	48	43	37	26	48	49	44	48	38	41	39	47	53	52	44.8		
Candelaria.....	Mm. 26	25	27	27	21	15	19	18	24	29	25	30	30	29	29	27	25	18	17	8	16	28	26	27	11	16	16	20	27	27	27	22.3	
Carson City.....	Max. 36	36	42	43	41	38	41	53	48	51	50	51	51	51	51	50	50	50	30	28	48	50	44	46	48	43	47	45	57	57	57	46.6	
Carson City.....	Mm. 26	22	15	13	10	10	14	5	5	18	20	21	16	16	16	16	16	16	27	0	12	12	12	15	14	13	12	12	12	15	15	16.9	
Carson City (W. B.).....	Max. 26	26	40	42	40	42	34	34	38	52	49	53	55	55	55	55	52	34	30	27	43	44	44	45	37	43	46	44	49	54	58	45.0	
Elko.....	Mm. 23	23	14	14	16	10	14	6	18	30	30	30	30	30	30	30	28	19	19	13	13	17	17	18	16	13	14	14	12	15	15	17.6	
Elko.....	Max. 43	43	44	40	43	37	40	37	40	43	40	42	42	46	46	47	42	41	38	39	47	49	49	42	49	42	39	40	44	52	52	43.0	
Ely.....	Max. 44	8	14	8	12	11	14	16	7	38	4	4	4	4	4	4	6	4	4	22	2	20	2	6	9	14	6	3	0	4	1	0.3	
Ely.....	Mm. 16	16	16	17	17	2	0	8	12	12	13	13	13	13	15	15	15	15	10	0	29	4	29	31	26	31	29	33	41	40	40	42.4	
Eureka.....	Max. 50	50	50	49	48	50	45	48	50	53	53	56	52	52	52	49	46	41	42	19	19	14	14	14	16	3	3	5	16	17	17	8.8	
Eureka.....	Mm. 16	16	16	17	17	2	0	8	12	12	13	13	13	13	15	15	15	15	10	0	29	4	29	31	26	31	29	33	9	11	11	41.6	
Fallon.....	Max. 43	43	42	40	42	33	33	31	31	36	36	40	46	46	46	46	47	56	56	2	42	44	42	40	34	39	41	42	48	53	53	49.9	
Fallon.....	Mm. 17	17	17	18	18	4	8	0	8	5	7	11	12	12	12	13	13	20	19	19	14	24	20	31	31	16	9	10	11	11	11	10.9	
Halleck*.....	Max. 43	43	40	35	32	30	30	30	38	46	44	46	43	46	46	46	45	42	18	12	12	12	12	13	13	13	13	13	13	13	13	41.2	
Halleck*.....	Mm. 19	19	13	10	14	4	8	0	8	5	7	11	12	12	12	13	13	20	19	19	14	24	20	31	31	16	9	10	11	11	11	10.9	
Humboldt.....	Max. 43	43	40	35	32	30	30	30	38	46	44	46	43	46	46	46	45	42	18	12	12	12	12	13	13	13	13	13	13	13	13	41.2	
Humboldt.....	Mm. 18	18	23	23	12	30	4	40	42	22	22	22	22	22	22	22	22	22	22	28	22	30	36	38	35	36	40	45	50	50	50	16.8	
Hawthorne.....	Max. 43	43	42	45	35	35	36	40	40	42	46	45	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	42.1	
Hawthorne.....	Mm. 30	26	14	20	24	38	16	11	15	27	47	47	50	50	50	50	50	50	50	40	42	49	49	49	49	49	49	49	49	49	49	17.1	
Lewers' Ranch.....	Max. 37	41	45	43	35	38	41	47	47	47	48	48	50	50	50	50	50	50	50	40	42	49	49	49	49	49	49	49	49	49	49	45.1	
Lewers' Ranch.....	Mm. 18	19	18	13	16	14	16	14	21	49	49	49	50	50	50	50	50	50	50	40	42	49	49	49	49	49	49	49	49	49	49	20.5	
Lovelock*.....	Max. 45	40	43	45	43	43	45	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	40.7	
Lovelock*.....	Mm. 15	20	19	17	16	21	13	13	13	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	16.8	
Martin's Ranch.....	Max. 47	57	60	60	60	50	51	64	64	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	54.3	
Martin's Ranch.....	Mm. 23	20	13	28	12	7	10	4	15	28	17	17	12	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	15.5	
McAfee's Ranch.....	Max. 48	44	42	46	40	42	40	41	46	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	47.7	
McAfee's Ranch.....	Mm. 25	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	12.0	
Morey.....	Max. 39	42	40	40	30	39	39	51	50	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	43.1	
Morey.....	Mm. 19	13	13	16	12	10	22	27	27	44	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	15.4	
Palmotto.....	Max. 41	43	43	46	34	44	44	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46.6	
Palmotto.....	Mm. 9	13	4	4	6	35	11	6	11	17	17	17	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	9.5	
Palisade.....	Max. 46	44	44	44	37	43	27	20	37	40	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	42.0	
Palisade.....	Mm. 17	15	12	22	18	10	7	3	6	5	6	6	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	7.2	
Pioche.....	Max. 36	35	40	36	24	30	30	40	33	40	44	45	48	53	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	38.1	
Pioche.....	Mm. 14	10	17	17	9	11	3	1	37	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	4.6	
Ports.....	Max. 36	35	40	36	24	30	30	40	33	40	44	45	48	53	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	39.0	
Ports.....																																	



# TOTAL PRECIPITATION FOR JANUARY, 1904.



## SCALE OF SHADES—Inches.

	0 to 1/2
	1/2 to 1
	1 to 1 1/2
	1 1/2 to 2
	2 to 2 1/2
	2 1/2 to 3



## DAILY PRECIPITATION FOR JANUARY, 1904.

Stations.	Day of Month.																															Total		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Northern Section.																																		
Battle Mountain	.10			.40	.20	.20	.20			.05								.08	T	T	.10												1.10	
Beowawe				.40						T								.40	.30														0.45	
Carlin		.08	.45	.00					.20	.05								.40															0.18	
Crane's Ranch		.20		.30						.50																							0.87	
Elko																																	1.70	
Golconda	T																	T	.10													0.10		
Humboldt	*	.25	.03	.42	.60					.21						.12		.28	.40		T	.16	T										0.40	
Lee				.20																													2.07	
Lovelock																																	T	
Mill City																																	0.20	
Palisade			.12	.17						.10	.15							.20	.15														0.65	
Quinn River Ranch	.10										.08							.25															0.60	
Tono					.40					.40								.20	.30														0.40	
Wells				.21	*	.40				.10	.02							T	.08														1.30	
Winnemucca	.15																				.02												0.58	
Wood	.07			.27						1.16								.10			.04												1.64	
Eastern Section.																																		
Ely				.16						.12						.12		.10															0.50	
Central Section.																																		
Austin	.18			.25	.35					T								.17	.06														1.01	
Eureka		T			.20	.10					T							.15															0.45	
Potts	T	T		.04	T					.02							T		.02		T												0.08	
Western Section.																																		
Carson City	.02			.12						.02							T	.15	.04	.17	.02												0.54	
Carson City (W. B.)	.02			.18	T					T	T						T	.04	.05	.17													0.46	
Fallon																																		
Glenbrook				.02						.02							.11	.02	.18														0.35	
Lewers' Ranch	.20			T						.60						.14	.25	.39	.60	.10													2.28	
Martin's Ranch																																	0.20	
Repo			T	.04						.02							.20	T	.15														0.21	
Wabuska																																	0.00	
Wadsworth																.05																	0.05	
Southern Section.																																		
Belmont			T							T							.06	T	.02														0.08	
Candelaria				T														T															T	
Hawthorne				T														T	T														T	
McAfee's Ranch																			T	.07													0.26	
Morey					.07													.30		.20													0.50	
Palmetto																																	0.00	
Pioche																																		
Sodaville																																		
Miscellaneous.																																		
Modena (Utah)					.04														.04		.12												0.20	
Independence (Cal.)				T	.44					.34						.03	*	T	.48	.42													T	
Donner (Cal.)	.20		T							.16	.37					.12		1.21	.63	.09													1.91	
Independence Lake (Cal.)	1.03	*	.60	.24						.25	*	.42	.48	T																			4.21	
Tahoe (Cal.)																																	1.39	
Lundy (Cal.)																		.90															0.90	
Bridgeport (Cal.)																	.15	.10															0.25	
Glen Alpine (Cal.)				.34						.35							.92	.37	.19														2.17	

T indicates trace. \* Precipitation included in that of following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, -  - ANDREW MAUTE, SUPT.

1904



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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR FEBRUARY, 1904.

## NEVADA SECTION

OF THE

# CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU

IN COÖPERATION WITH THE

## NEVADA STATE WEATHER SERVICE

(CHARLES W. FRIEND, Director.)

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU,

BY

J. H. SMITH,

SECTION DIRECTOR,

CARSON CITY, NEVADA.

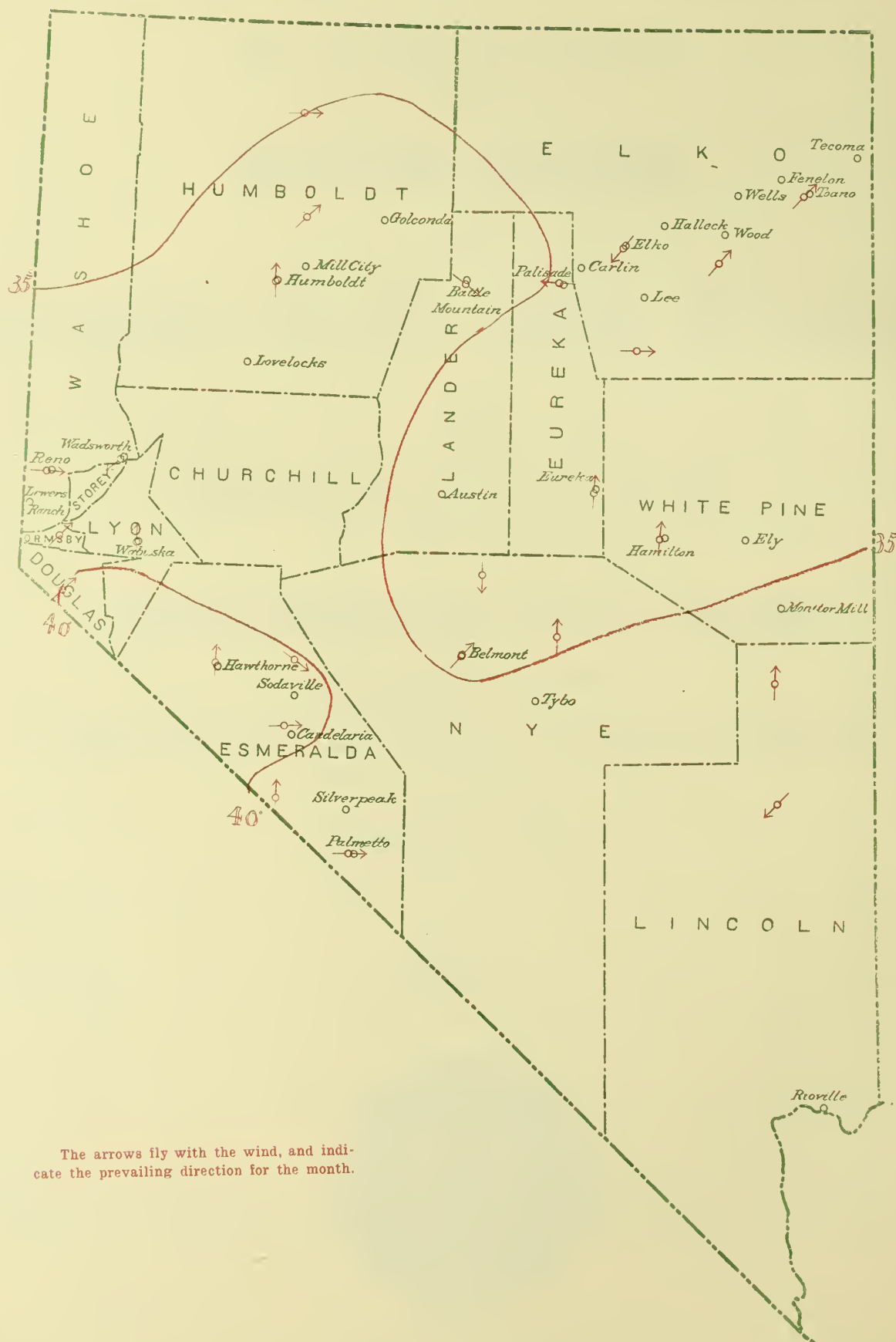


CARSON CITY, NEV.:  
WEATHER BUREAU OFFICE.

March 23, 1904



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR FEBRUARY, 1904.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## NEVADA SECTION.

J. H. SMITH, Section Director,

CARSON CITY, NEVADA.

VOL. XVIII.

CARSON CITY, NEVADA.

No. 2

## SUMMARY OF WEATHER CONDITIONS.

Remarkably mild weather prevailed throughout the State during the greater part of the month. It was the warmest February in the past seventeen years, the period covered by official records. An excess of temperature was noted at all stations, except Toano, averaging 4 degrees above normal. The highest temperatures occurred at the majority of stations during the last decade, generally from the 22d to the 27th, while the lowest, with few exceptions, were observed on the 9th. There was more than the usual amount of cloudiness, and the wind movement during the first and second decades was much greater than the average for February. A severe wind-storm on the morning of the 4th caused considerable damage to trees, fences and buildings in Reno and vicinity.

Over the northern half of the State the precipitation was in excess of the normal, while in the southern half it was somewhat deficient. The most notable feature of the month's weather was the heavy rainfall in the western part of the State from the 21st to the 28th, which, for duration and amount, broke all previous precipitation records for the past twenty-four years. At Lewers' Ranch, Washoe County, 2.50 inches of rain fell in twenty-four hours, on the 16th-17th. The mild weather and rains at higher altitudes than usual caused a rapid melting of snow, resulting in washouts, snowslides and flood stages in the principal rivers.

Live stock wintered well, without much feeding, and at the close of the month were in excellent condition, generally.

## CLIMATOLOGY OF THE MONTH.

## Atmospheric Pressure—Inches and Hundredths.

The mean atmospheric pressure for the State, reduced to sea level, as determined from the records of the United States Weather Bureau stations at Carson City and Winnemucca (Nevada), Modena (Utah), and Independence (California), was 29.95 inches.

The highest pressure, 30.48 inches, was recorded at Modena, on the 10th, and the lowest, 29.38 inches, at Modena, on the 5th; absolute range of pressure, 1.10 inches.

## Temperature—Degrees Fahrenheit.

The mean temperature for the State, as determined from the reports of thirty-seven stations, was 35.9, which is 4.2 above normal, and 15.2 higher than the mean for the corresponding month of 1903.

By sections, the means were: Northern, 34.0; eastern, 33.5; central, 33.4; western, 39.7; southern, 35.9.

The highest monthly mean, 44.5, was recorded at Wadsworth, Washoe County.

The lowest monthly mean, 25.3, was recorded at Toano, Elko County.

The highest temperature, 73, was recorded at Martin's Ranch, Douglas County, on the 15th; McAfee's Ranch, Esmeralda County, on the 22d, and Sodaville, Esmeralda County, on the 26th.

The lowest temperature recorded during the month was 15 below zero, at Potts, Nye County, on the 9th.

The greatest local daily range of temperature was 54, at Elko, Elko County, on the 6th, and the least, 7, at Quinn River Ranch, Humboldt County, on the 12th, and Wood, Elko County, on the 16th.

## Precipitation—Inches and Hundredths.

The average precipitation for the State, as determined from the reports of all stations, was 2.48 inches, or 1.33 inches above normal, and 1.92 inches above the average for the corresponding month of 1903.

By sections, the averages were as follows: Northern, 1.73 inches; eastern, 1.82 inches; central, 1.46 inches; western, 6.72 inches; southern, 0.65 of an inch.

The greatest monthly amount, 14.86 inches, was recorded at Lewers' Ranch, Washoe County, and the least, 0.21 of an inch, at Sodaville, Esmeralda County.

The greatest amount recorded in any twenty-four hours was 2.40 inches at Lewers' Ranch, on the 16th.

The average depth of snowfall, in the valleys, was 3.4 inches.

## Relative Humidity.

Carson City—8 a. m., 75 per cent; 8 p. m., 72 per cent; monthly mean, 71 per cent.

Winnemucca—8 a. m., 69 per cent; 8 p. m., 51 per cent; monthly mean, 63 per cent.

Modena (Utah)—8 a. m., 70 per cent; 8 p. m., 45 per cent; monthly mean, 53 per cent.

## Wind and Weather.

The prevailing direction of the wind was from the southwest.

The total wind movement at Carson City was 7,481 miles; Winnemucca, 9,664 miles; Modena (Utah), 8,910 miles; Independence (California), 5,173 miles.

The maximum velocity at Carson City was 52 miles per hour from the southwest, on the 15th; Winnemucca, 57 miles per hour, from the south, on the 14th; Modena, 58 miles per hour, from the southwest, on the 5th; and 60 miles per hour, from the west, at Independence, on the 22d.

The average number of clear days was 9; partly cloudy, 7; cloudy, 13; days with .01 of an inch or more of precipitation, 7.

## MISCELLANEOUS PHENOMENA.

(Stations and Dates of Occurrence.)

Lightning—Candelaria, 16th.

Lunar Halos—Reno, 1st.

Solar Halos—Carson City, 1st.

Dense Fog—Palmetto, 16th.

Light Fog—McAfee's Ranch, 7th; Morey, 21st.

Thunderstorms—Pioche, 16th; Geyser, 16th, 27th; Lewers' Ranch, 24th.

Sleet—Lewers' Ranch, 16th, 24th; McAfee's Ranch, 27th; Lee, 16th; Pali-sade, 27th; Hamilton, 7th, 16th, 23d, 24th.

## COMPARATIVE TEMPERATURE AND PRECIPITATION DATA FOR FEBRUARY DURING THE PAST FIFTEEN YEARS.

Year.	Temperature			Average Precipitation. Inches and 100ths.
	Mean.	Highest.	Lowest.	
1890	30.7	88	-41	1.55
1891	30.5	66	-19	2.39
1892	33.0	74	-18	0.95
1893	29.9	69	-40	1.43
1894	25.7	71	-41	1.92
1895	31.1	77	-35	1.23
1896	35.4	86	-12	0.02
1897	29.6	67	-22	2.09
1898	20.4	63	-28	0.69
1899	33.3	73	-27	0.55
1900	35.3	76	-12	0.51
1901	31.6	77	-27	2.61
1902	36.4	75	-16	1.41
1903	20.7	86	-32	0.56
1904	35.9	73	-15	2.48

## REMARKS OF VOLUNTARY OBSERVERS AND CLIMATE AND CROP CORRESPONDENTS.

Potts—Very high wind on the 4th and 27th.

MISS BESSIE POTTS.

Hamilton—Extra warm weather this month.

MRS. J. F. BECK.

McAfee's Ranch—First storm of the winter on the 27th; very little snow on the mountains; live stock doing fairly well.

G. A. MCAFEE.

Lewers' Ranch—The heavy rains caused washouts; some bridges washed out.

MRS. BRUCE LEWERS.

Elko—Latter part of month pretty wet. Great amount of water ran to waste in the Humboldt River.

C. H. SPROULE.

Geyser—The last half of the month has been unusually warm for this time of the year.

A. D. CAMPBELL.

Hawthorne—A very dry season so far. Not enough snow in Bodie, Cal., to prevent stages going in on wheels, which is something very unusual.

T. G. WATTERSON.

Pioche—The wind on the 5th was the strongest we have had for a long time. Lightning and heavy thunder on the 16th, which is an unusual occurrence at this time of the year.

A. A. CARMAN.

Wood—It has been a very remarkable month for February. Snowing in the mountains and raining in the valley. Stock in good condition.

A. H. WISEMAN.

Reno—On the 4th a high wind destroyed two flimsy buildings in East Reno, and broke some windows in Reno. Intermittent showers in the afternoon of the 15th; heavy showers for a few minutes during afternoon of 21st. Rained all night of the 23d and all day of the 24th; morning of the 25th was clear. Intermittent rain and snow on the 28th.

S. B. DOTEN.

Fallon—February, 1903, has been a warm month with a few high winds. Only two or three light showers. All stock being fed.

J. W. FERGUSON.

Smith—Dry during first part of month, very wet latter part. More rain fell here than for twelve months inclusive, prior to February. Range feed poor, but stock looking well.

C. M. CARTER.

Pine Grove—The month opened with high winds and stormy weather. Considerable snow from 4th to 7th. Heavy rains latter part of month gave the ground a thorough soaking. Mountain range feed rather poor.

E. W. STEWART.



**Wabuska**—Weather has been fine for outside stock and they have done fairly well without feeding. Sheepmen have herded their flocks in the foot-hills all winter. J. G. YOUNG.

**Wadsworth**—The first part of the month was cold and dry; latter part warm and rainy. Stock doing well. T. G. HERMAN.

**Battle Mountain**—The last part of the month has been remarkably wet and unusually warm. Snow nearly all gone from the mountains in this section. At the close of the month all streams were running bank full. B. F. WILSON.

**Lee**—Much storm during the month, rain and wind latter part. Weather quite mild; stock in good condition; ranges covered with snow. MISS JENNIE WILLIAMS.

**Bullion**—High winds from the south. Foggy weather with little snowfall, but heavy rains occurred the latter part of month. Live stock in good condition and doing well. F. J. FRANK.

**Ely**—First ten days of February were cold and dry like December and January. A light fall of dry snow on the 5th, 7th and 8th. Last nineteen days averaged warm with light rains on the 16th, 21st, 22d and 27th. One and one-half inches of snow on the 16th, and ten inches night of 27th. All range stock doing well. H. A. COMINS.

**Illipah**—The month has been milder than the average February, with considerable rainfall and snowfall, which has been fine for the ranges. Cattle looking fairly well. W. M. MOORMAN.

**Shoshone**—A very remarkable month, being as warm as April or May during the second and third decades. All stock doing very well. GEO. SWALLOW.

**Rebel Creek**—The month has been milder than usual, with copious rains the latter part. High wind prevailed throughout the month. Stock of all kinds in good condition. Grass is starting nicely, so there is good feed for sheep. R. McLERAN.

**Paradise**—Fifteen days cloudy; ten days partly cloudy and four days clear. Rain or snow fell on thirteen days. Ranges in good condition and stock doing well. T. J. BRADSHAW.

**Amos (Quinn River Ranch)**—The month has been remarkably fine for stockmen in this vicinity. Weather has been mild with storms at intervals. F. M. PAYNE.

**Overton**—Very fine weather most of the month; some wind and a few cold nights. No storms. Gardening in progress during month. T. J. JONES.

#### SNOWFALL IN THE MOUNTAINS.

The snow situation in Nevada was very much improved by the heavy falls of snow which occurred during the early part of the month. The high winds which accompanied the snowstorms drifted enormous quantities of snow into the ravines and gulches, especially over the watersheds of the Carson, Walker and Truckee Rivers. Reports indicate that there is a deficiency of snow in the mountains over the watershed of the Humboldt River. Warm weather and heavy rains, at higher altitude than usual, caused much of the snow to disappear from many of the low ranges throughout the State during the last half of the month. Prospects are favorable for a good flow of water in the Carson, Walker and Truckee Rivers during the coming season. The flow in the Humboldt promises to be about the same as last year, probably somewhat less.

#### EXTRACTS FROM REPORTS OF CORRESPONDENTS.

##### Humboldt River Watershed.

**Battle Mountain**—More rain than usual for February; snowfall below normal. W. T. ONYON.

**Beaver**—Less snow in the mountains than for several years. LOUIS F. BELLO.

**Bullion**—Have had heavy rains, but not much snow. F. J. FRANK.

**Carlin**—Very little snow on the mountains in the immediate vicinity; considerable rain has fallen during the month. G. H. KENYON.

**Golconda**—About the average amount of snow fell during the month; weather warm and snow going fast. F. W. KLOCK.

**Humboldt**—The snowfall about average. J. J. CULLEN.

**Lamoille**—Snowfall about the average amount for February. We have had considerable rain and wind. G. M. BOWER.

**Lee**—Snowfall about the average for February; no extremely cold weather so far. J. C. WILLIAMS.

**Lovelock**—Much less snow than usual for February, but more rain. C. L. NOBLE.

**Palisade**—This is the driest winter we have had in many years. No snow on hills and very little on high mountains. J. A. FERRARO.

**Paradise**—The outlook is a little better than at this time last year. T. J. BRADSHAW.

**Rebel Creek**—The conditions are favorable for more water than last year. The ground is well soaked. R. McLERAN.

**Wells**—Warm rains during the last ten days of the month melted all snow on lowlands, but the past 36 hours (29th) brought considerable more and there is now about two inches on the ground. PHIL S. TRIPLETT.

**Winnemucca**—The precipitation for the season is somewhat less than the average, and dry winds, it is thought, have caused excessive evaporation. The flow may be good in the creeks; but with only an average fall of precipitation from now on during the remainder of the season the water supply will probably be below the normal this season. J. C. HAYDEN.

##### Walker River Watershed.

**Bridgeport**—In the close proximity to town the snowfall is very much smaller than last year, but in the mountains greater. GEO. A. MONTROSE.

**Bodie**—The indications are favorable for ample supply of water during the coming season. E. R. BROOKS, M. D.

**Markleeville**—More snow than usual for February. H. F. MUSSER.

**Pine Grove**—Warm rain the latter part of the month melted the snow on the low range of mountains, but the ground got a thorough soaking which will be good for range feed next summer. E. W. STEWART.

**Smith**—The high mountains in this vicinity appear to contain more snow than last year at the close of February. C. M. CARTER.

**Schurz**—The snowfall in the mountains has been a little greater than the average amount for February. M. E. LEAVITT.

**Sweetwater**—More rain and less snow than usual. M. H. ROACH.

**Topaz**—Probably more snow in the mountains than last year at this time. A. D. BIRD.

**Wabuska**—During the storms the past month the weather was warm and rain fell at higher altitude than usual. Had it been colder the snowfall would have been much greater. J. G. YOUNG.

##### Truckee River Watershed and Lake Tahoe Drainage.

**Boca**—Had about a week of steady rain which took off most of the snow. A. D. TOURTILLOTTE.

**Donner Lake**—The snowfall during the month has been much greater than the average or usual amount for February. F. R. WILLIAMS.

**Floriston**—More snow than usual for February. There will be more water than last year. M. FLEISHACKER.

**Reno**—Snowfall far above the usual February average. Very heavy precipitation for the month, amounting to nearly five inches; nearly all of it was rain, causing a freshet in the Truckee River. S. B. DOTEN.

**Tahoe City**—The snowfall during the month was a little under the February average. H. S. WATSON.

**Wadsworth**—Snowfall below the usual February average. T. G. HERMAN.

##### Carson River Watershed.

**Carson City**—Heaviest February snowfall for several years. J. H. SMITH.

**Genoa**—More snow in the mountains than last year at this time. W. S. JOHNSON.

**Dayton**—Snowfall during the month about the usual February average. THOS. P. MACK.

#### TABLE OF SNOWFALL.

##### Depth in Inches.

Station.	County.	Compared with average for February.	On ground at station February 29th.	At or near summit of mountains.	Prospective waterflow compared with last season.
<b>Humboldt Watershed:</b>					
Battle Mountain.....	Lander.....	Less.....	0.....	22.....	Less.....
Beaver.....	Elko.....	Less.....	0.....	8-10.....	Less.....
Bullion.....	Elko.....	Less.....	0.....	12.....	Less.....
Carlin.....	Elko.....	Less.....	0.....	2.....	Less.....
Golconda.....	Humboldt.....	Average.....	0.....	24.....	Less.....
Humboldt.....	Humboldt.....	Average.....	0.....	24.....	Average.....
Lamoille.....	Elko.....	Less.....	0.....	60-84.....	Less.....
Lee.....	Elko.....	Average.....	2.....	60-72.....	Average.....
Lovelock.....	Humboldt.....	Less.....	0.....	.....	Less.....
Palisade.....	Eureka.....	Less.....	0.....	.....	Less.....
Paradise.....	Humboldt.....	Less.....	0.....	.....	Average.....
Rebel Creek.....	Humboldt.....	Less.....	0.....	.....	Greater.....
Unionville.....	Humboldt.....	Less.....	0.....	.....	Less.....
Wells.....	Elko.....	Less.....	2.....	.....	Less.....
Winnemucca.....	Humboldt.....	More.....	0.....	36-150.....	Less.....
<b>Walker Watershed:</b>					
Bridgeport, Cal.....	Mono.....	More.....	3.....	120-144.....	Average.....
Bodie, Cal.....	Mono.....	More.....	14.....	144.....	Greater.....
Lundy, Cal.....	Mono.....	More.....	72-84.....	96.....	Greater.....
Markleeville, Cal.....	Alpine.....	More.....	6.....	150.....	Greater.....
Pine Grove.....	Esmeralda.....	More.....	0.....	12.....	Average.....
Smith.....	Lyon.....	Less.....	0.....	.....	Average.....
Schurz.....	Esmeralda.....	More.....	0.....	.....	Average.....
Sweetwater.....	Esmeralda.....	Average.....	0.....	36.....	Greater.....
Topaz, Cal.....	Mono.....	More.....	0.....	.....	Less.....
Wabuska.....	Lyon.....	More.....	0.....	4-5.....	Greater.....
<b>Truckee Watershed:</b>					
Boca, Cal.....	Nevada.....	More.....	24.....	60-120.....	Greater.....
Donner Lake, Cal.....	Nevada.....	More.....	42.....	120.....	Greater.....
Floriston, Cal.....	Nevada.....	More.....	6.....	36.....	Greater.....
Glenbrook.....	Douglas.....	More.....	18.....	28-30.....	Greater.....
Hobart Mills, Cal.....	Nevada.....	More.....	30.....	48.....	Greater.....
Independence Lake, Cal.....	Sierra.....	Less.....	17.....	20.....	.....
Marlette Lake.....	Ormsby.....	More.....	129.....	134.....	Greater.....
Reno.....	Washoe.....	More.....	0.....	96-120.....	Greater.....
Tahoe City, Cal.....	Placer.....	Less.....	48.....	72-84.....	Average.....
Wadsworth.....	Washoe.....	Less.....	0.....	12.....	Average.....
<b>Carson Watershed:</b>					
Carson City.....	Ormsby.....	More.....	0.....	36.....	Greater.....
Genoa.....	Douglas.....	More.....	0.....	120.....	Greater.....
Dayton.....	Lyon.....	More.....	0.....	12.....	Greater.....
Virginia City.....	Storey.....	Average.....	12.....	72.....	Average.....



## CLIMATOLOGICAL DATA FOR FEBRUARY, 1904.

Stations.	Counties.	Elevation feet.	Length of record years.	Temperature (degrees Fahrenheit)					Precipitation (inches)										On average.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest in 24 hours.	Total.	Percentage of the normal.	Greatest in 24 hours.	Total snowfall (inches).	Number of rainy days.	Number of days with clouds.	Number of days with snow.	Number of days with frost.		Prevailing wind.	
Northern Section.																					
Battle Mountain-1	Lander	4,511	31	37.0	+1.0	62	15	9	1	19	1.72	0.95	0.60	7.0	8	7	7	16	SW	Agent So. Pacific Co.	
Beowawe-3	Eureka	4,695	31	32.9	+1.7	49	16	9	9		1.00	0.29	0.20	6.0	7					Agent So. Pacific Co.	
Carlin-3	Elko	4,897	31	31.1	+5.8	58	25	12	1		1.10	0.15	0.70	3.0	7				SW	Agent So. Pacific Co.	
Crane's Ranch†	Elko	5,350	17								1.79	-0.87	0.60		9	3	5	21	W	W. T. Crane	
Elko-1	Elko	5,063	31	31.0	+3.1	58	17	6	6	31	2.20	1.18	0.75	12.0	9	9	13	7	NE	C. H. Sprinkle	
Fenelon-3	Elko	6,128	17																	Agent So. Pacific Co.	
Golconda-3	Humboldt	4,392	26	37.5	+2.1	57	14	6	10		1.05	+0.19	0.50	3.0	5	6	7	16		Agent So. Pacific Co.	
Halleck-3	Elko	5,229	32	32.5	+6.5	60	9	2	2					7.0	9	1	21	4	SW	Agent So. Pacific Co.	
Humboldt-1	Humboldt	4,236	33	39.5	+1.9	60	16	13	8	37	1.52	+0.72	0.80	T	6	11		15	S	Agent So. Pacific Co.	
Lee	Elko		6								3.34		0.85	13.0	9	6	7	16	S	Miss Jennie Williams	
Lovelock-1	Humboldt	3,977	13	31.3		55	24	14	3		1.16		0.13		1	8	1	20		Agent So. Pacific Co.	
Mill City-3	Humboldt	4,225	16	37.0	+3.0	52	3	10	9		0.90	+0.48	0.30	6.0	4				SW	Agent So. Pacific Co.	
Palisade-1	Eureka	4,821	23	35.4	+5.8	64	25	3	9	49	2.30	+1.17	0.82		8				E	Agent So. Pacific Co.	
a'Quim River Ranch-1	Humboldt	4,850	3	34.8		57	15	2	2	43	1.91		0.56		6	5	15	8	W	F. M. Payne	
Tecoma-1	Elko	4,812	27																	Agent So. Pacific Co.	
Toano-3	Elko	5,975	35	25.3	-1.2	49	16	-11	9		0.35	-0.49	0.35		1	17	7	5	SW	Agent So. Pacific Co.	
Wells-3	Elko	5,623	33	33.4	+6.9	51	5	7	9		1.65	+0.67	0.60	12.0	5	6	4	19	SW	Agent So. Pacific Co.	
Winnemucca-1	Humboldt	4,432	26	35.8	+3.3	59	15	0	9	43	1.59	+0.66	0.46	4.4	10	5	4	20	SW	U. S. Weather Bureau	
Wood-1	Elko	6,000	5	32.6		58	26	-3	10	44	3.84		1.81		9	7	5	17	SW	A. H. Wiseman	
Eastern Section.		Means		34.0	+3.8						1.73	+0.64		6.7	7	7	6	16	SW		
Ely-1	White Pine	6,000	17	32.6	+3.5	59	25	3	5	44	1.99	+0.60	0.62	14.5	8	14	0	15		D. S. Dickerson	
Hamilton-1	White Pine	7,977	4	34.4		47	13	20	1	20	1.66		0.80	16.5	5	8	9	12	S	Mrs. J. F. Beck	
Central Section.		Means		33.5	+3.5						1.82	+0.60		15.5	6	11	4	14	S		
Austin-1	Lander	6,594	16	34.4	+4.7	57	14	3	9	40	2.22	+1.17	0.86		10					H. W. Dyer	
Eureka-1	Eureka	6,990	2	35.4		63	15	1	9	49	1.80		0.70	10.9	4	18	9	2	N	Geo. L. Broy	
Potts-1	Nye	6,826	12	30.4	+4.0	60	21	-15	9	46	0.37	-0.61	0.10	4.5	6	7	8	14	N	Miss Bessie Potts	
Western Section.		Means		33.4	+4.4						1.46	+0.28		7.7	7	13	8	8	N		
Carson City-2	Ormsby	4,690	25	38.7	+2.2	63	3	4	6	40	6.73	+5.24	1.79	10.5	16	6	13	10	SW	C. W. Friend	
Carson City (W. B.)-1	Ormsby	4,720	15	38.4	+1.9	61	3	6	6	38	5.85	+4.36	1.63	7.5	14	6	3	20	SW	U. S. Weather Bureau	
Fallon-1	Churchill		1	38.2		65	15	9	5	48	1.03		0.70		4					Mrs. Ida Dolf	
Glenbrook	Douglas	6,282									11.65		3.60		17	2	0	27	NW	D. Couillard	
Lewers' Ranch-1	Washoe	5,200	17	38.4	+3.8	59	3	7	9	29	18.14	+14.86	3.18	20.5	19	5	14	10	SW	Mrs. Ross Lewers	
Martin's Ranch-1	Douglas	4,830	6	42.9	+6.4	73	15	0	6	53	4.34	+2.85	0.90	7.0	10	13	6	10	SW	Mrs. J. H. Martin	
Reno-1	Washoe	4,184	34	38.0	+3.1	60	3	9	9	38	4.99	+3.91	1.90	2.0	12	7	10	12	W	S. B. Doten	
Wabuska-1	Lyon	4,347	2	38.2		65	15	0	9	51	1.05		0.30		6	4	10	15	S	J. H. Harcourt	
Wadsworth-1	Washoe	4,077	33	44.5	+6.1	68	15	14	11		2.36	+1.82			6	16	7	6	NE	Agent So. Pacific Co.	
Southern Section.		Means		39.7	+3.9						6.72	+5.51		9.5	12	6	8	15	SW		
Belmont-1	Nye	8,132	13	31.8	+7.0	52	23	4	8	36	0.81	-0.56	0.36	6.3	5	7	7	15	SW	W. N. Granger	
bCandelaria-1	Esmeralda	5,783	15	41.4	+5.7	69	24	15	6	26	0.34	-0.08	0.18	2.5	4	12	7	10	W	A. G. Draper	
oGeyser-1	Lincoln					67	19	17	29	31	0.45		0.25	1.5	2	7	3	4	S	A. D. Campbell	
Hawthorne-1	Esmeralda	4,569	17	41.1	+3.3	68	15	12	9	38	0.26	-0.14	0.10	0.0	4	5	4	20	S	T. G. Watterson	
McAfee's Ranch-1	Esmeralda	4,835	1	39.4		73	22	2	6	53	0.52				2	11	6	12	S	G. A. McAfee	
Morey-1	Nye	7,384	1	35.2		61	25	-1	6	41	1.07		0.53	6.0	5	2	26	1	S	Jas. B. Gilmore	
Palmetto-1	Esmeralda	6,500	15	37.3	+5.6	68	22	-1	9	42	0.90	-0.84	0.90	9.0	2	15	11	3	E	Wm. Oothout, Jr.	
aPioche-1	Lincoln	6,100		37.5		64	22	2	6	38	1.66		0.70	9.0	4	6	9	14	NE	A. A. Carman	
Sodaville-1	Esmeralda	4,665	6	41.1		73	26	11	5	39	0.21		0.21	0.0	1	11	11	7	NW	Agent So. Pacific Co.	
Means				38.1	+5.4						0.65	-0.40		3.6	3	9	10	10	S		
State Means				35.9	+4.2						2.48	+1.33		8.6	7	9	7	13	SW		
Miscellaneous.																					
Modena (Utah)-1	Iron	5,470	4	36.0		66	22	-6	10	43	1.01		0.49	5.2	5	14	13	2	SW	U. S. Weather Bureau	
Independence (Cal.)-1	Inyo	3,721	8	48.5		73	22	22	6	31	1.20		0.82	0.0	4	6	11	12	NW	U. S. Weather Bureau	
Donner (Cal.)	Nevada	6,095									18.68		2.86	108.1	17	5	6	18	SW	F. R. Williams	
Independence Lake (Cal.)	Sierra										23.90		3.98	112.0	19	3	9	17	SW	C. J. Gepper	
Tahoe (Cal.)	Placer	6,252									15.47		3.00	44.4	19				S	J. U. Haley	
Lundy (Cal.)	Mono										10.20		4.40	95.0	7					Al. Taylor	
Bridgeport (Cal.)	Mono	6,423									2.58		0.80	7.5	9		9	8	12		Geo. A. Montrose
Glen Alpine (Cal.)	Eldorado										19.95		3.27	113.5	14		9	0	20	SW	Jos. Pacilli

REFERENCES: 1. Weather Bureau maximum and minimum thermometers in use; 2. self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3. means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed before the name of a station, or against the data in the body of the form, indicates the number of days missing from the record; for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

\* Not considered in computing State or district means.

† Postoffice—Elko. ‡ Postoffice—Franktown. § Postoffice—Gardnerville. || Postoffice—Elko. ¶ Postoffice—Amos.

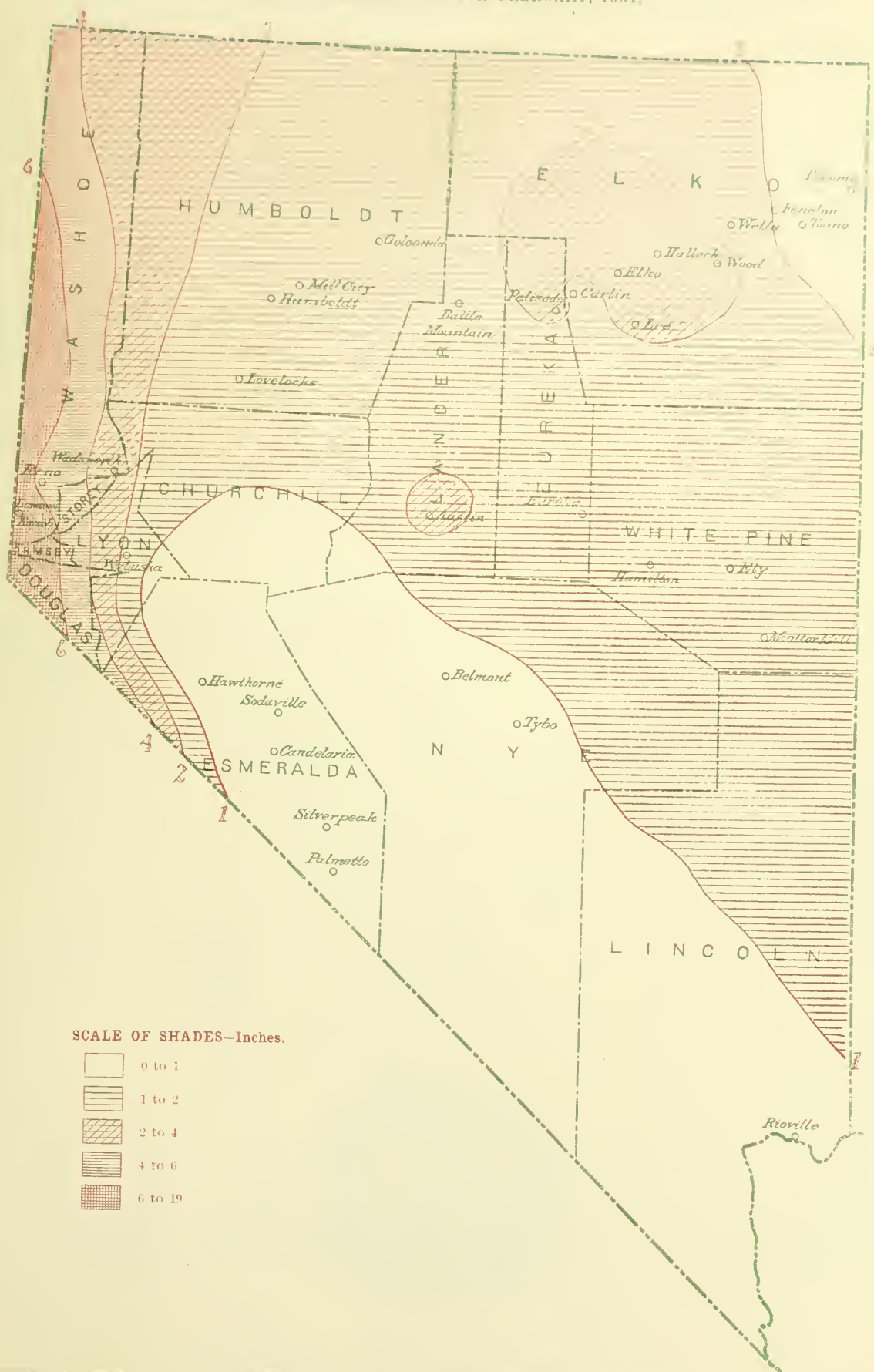


DAILY MAXIMUM AND MINIMUM TEMPERATURES FOR FEBRUARY, 1904.

Stations		Day of Month.																															Monthly Means				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Austin.....	Max.	48	54	51	51	51	29	28	29	24	39	46	45	41	57	52	55	45	38	43	43	46	51	46	54	51	52	51	36	46			45.0				
	Min.	22	24	26	32	34	4	9	12	3	16	23	32	26	28	29	31	13	20	36	25	28	37	38	34	31	32	32	16	27			23.9				
	Max.	58	58	56	54	59	48	45	45	46	50	56	46	60	60	62	60	60	60	55	55	52	58	60	60	60	58	54	51	58			55.1				
	Min.	9	10	10	10	10	16	12	10	12	14	14	18	18	20	20	22	20	18	18	16	18	18	18	25	35	40	26	28	26	29			18.9			
	Max.	44	46	49	45	24	25	27	27	35	39	40	44	41		46	47	47	35	37	42	45	46	50	52	52	51	44	44	33	41			41.1			
Candelaria.....	Min.	21	23	21	35	23	11	7	4	7	23	27	21	28		22	11	14	19	24	27	34	36	33	31	29	33	21	15	28			22.5				
	Max.	53	56	57																													52.3				
	Min.	35	32	33																													30.6				
	Max.	56	59	63	52	31	35	39	35	38	50	52	45	54	52	50	56	48	47	48	51	53	61	57	49	54	55	41	41	54			49.2				
	Min.	25	19	23	27	12	4	20	26	6	16	31	36	34	30	34	46	45	47	53	53	53	45	39	36	34	38	31	41	25	32			28.2			
Carson City (W. B.).....	Max.	54	58	61	53	31	34	36	34	36	49	51	45	51	52	54	46	45	47	53	53	59	57	49	48	48	48	48	41	42	52			48.2			
	Min.	24	20	26	25	14	6	20	26	9	16	33	36	33	30	39	35	25	22	37	33	44	44	39	35	34	37	30	26	35			28.7				
	Max.	48	49	52	50	52	50	47	47	46	50	54	56	54	54	56	58	52	54	54	52	49	49	48	49	50	54	49	48	49	56			50.7			
	Min.	3	0	1	4	0	6	2	3	0	6	4	6	7	6	12	16	12	14	8	14	16	29	26	27	29	29	24	24	24			11.1				
	Max.	48	48	42	55	50	31	30	29	22	42	45	46	47	52	54	52	31	35	45	45	48	55	54	57	50	54	48	35	53			45.2				
Eureka.....	Min.	10	14	12	20	3	12	1	5	2	14	24	32	20	32	32	32	8	4	11	22	32	36	42	33	40	40	35	18	7	24			19.3			
	Max.	50	49	56	55	35	51	38	35	39	36	44	46	51	51	63	60	50	42	47	50	48	50	48	60	50	49	66	55	50	60			49.3			
	Min.	19	19	24	44	15	4	10	15	1	8	24	31	21	21	36	30	11	15	25	24	20	22	40	20	30	40	30	10	11			21.4				
	Max.	53	50	58	56	54	57	45	42	40	40	58	57	59	64	65	60	58	60	63	60	61	60	63	65	63	63	63	48	60			56.3				
	Min.	11	14	15	12	9	10	14	13	10	9	20	20	21	24	30	31	15	15	12	14	15	25	30	28	25	37	30	34	22	20			20.2			
Geyser.....	Max.																																54.9				
	Min.																																53.4				
	Max.																																				
	Min.																																				
	Max.																																				
Halleck*.....	Max.	36	37	38	40	39	38	39	39	41	40	43	44	47	45	40	39	35	24	22	32	29	42	43	44	44	43	40	39	30	27			41.1			
	Min.																																				
	Max.	49	57	50	50	40	28	28	40	42	48	46	50	48	49	55	57	60	58	52	53	51	58	55	55	53	51	55	60	52	56	54			27.6		
	Min.	20	28	32	30	27	28	25	15	13	18	20	25	33	30	28	25	23	25	21	26	33	29	35	38	37	38	34	34	30	32	39			50.8		
	Max.	49	50	52	58	46	40	45	40	45	50	58	60	48	64	68	60	45	51	54	53	61	65	68	60	65	61	57	50	58	54			28.2			
Hawthorne.....	Min.	24	22	23	21	21	14	20	17	12	15	20	30	40	28	32	40	28	14	21	27	32	42	43	43	43	44	40	23	24					27.5		
	Max.	55	56	59	56	35	35	36	34	36	45	57	41	49	50	53	48	45	51	52	56	57	54	48	46	50	53	40	40	47					47.7		
	Min.	35	38	31	31	15	12	22	25	7	16	43	34	35	32	44	35	25	24	33	34	31	37	42	38	34	24	35	32	22	29			29.2			
	Max.	42	40	40	40	35	35	30	20	32	40	43	48	50	40	45	40	45	40	45	40	45	40	45	40	45	45	45	45	45	40			41.0			
	Min.	15	25	14	17	20	25	20	15	18	25	20	28	40	25	30	30	30	30	30	20	20	25	28	28	50	30	30	30	29	30			25.1			
Martin's Ranch.....	Max.	62	69	66	64	44	44	43	43	42	61	56	52	57	57	73	65	56	52	66	60	68	67	51	55	61	60	52	56	54			57.7				
	Min.	40	16	18	33	9	0	18	23	5	15	31	33	38	37	37	35	24	22	32	29	42	43	43	39	35	39	35	25	23			28.1				
	Max.	58	59	63	61	52	43	43	47	44	49	49	60	65	60	60	63	54	50	56	58	68	73	69	68	64	66	58	47	56			57.3				
	Min.	12	15	10	37	20	2	20	5	4	5	11	23	33	33	18	23	42	25	5	19	11	31	30	37	31	33	34	34	30	22			21.4			
	Max.	52	56	60	52	43	34	35	34	36	45	47	50	51	60	53	52	42	25	46	52	54	47	58	56	60	61	60	52	43	49			49.7			
Palmetto.....	Min.	20	19	19	26	17	1	13	8	2	8	21	32	22	22	32	32	15	10	14	20	32	34	35	36	30	29	12	18					20.7			
	Max.	54	56	61	54	33	44	37	43	41	44	47	55	60	60	62	53	45	47	50	55	60	68	67	65	60	55	60	55	44			52.6				
	Min.	21	21	22	31	15	2	12	6	1	11	18	32	28	27	30	37	22	10	16	21	30	36	28	38	30	35	32	7	20			22.0				
	Max.	57	59	60	59	56	40	38	32	18	47	49	49	41	56	50	49	51	50	48	50	55	58	62	64	60	50	47	47	20			50.3				
	Min.	14	12	16	13	11	7	8	11	3	17	33	30	22	30	22	31	22	41	16	27	27	40	28	30	29	30	21	19	20			20.4				
Pioche.....	Max.																																				



TOTAL PRECIPITATION FOR FEBRUARY, 1904.






## DAILY PRECIPITATION FOR FEBRUARY, 1904.

Stations.	Day of Month.																															Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Northern Section.																																	
Battle Mountain					.10		.20	.30				.60		.20						.10	.20		.10					.10					1.72
Beowawe						.10	.20	.15	.10			.10				.20					.70							.10					1.00
Carlin							.05	.15				.02				.23					.60	.24						.10					1.40
Crane's Ranch					.30	.40	T					.15	.05							.10	.75							.14	.16				1.79
Elko					.10			.20				*	.50			T	.25			.10								.20	.20				2.20
Golconda					.15	.15		.10				.20								.40													1.65
Halleck											*	.12																.10					1.52
Humboldt				T		.54		.40	.03		.43			.10		.62				.85		.30	.26	.07			.40						3.34
Lee																																1.16	
Lovelock						.30	.30	.30			*	.92			.25					.60	.60		.10			.20		.07					0.96
Mill City						.30	.06	.10			*	.51				.29				.21	.35		.19				.56						1.91
Palisade						.15						.26	T	.40			.07		.46	.11	T	.24			T		*						0.35
Quinn River Ranch					.22	T	.06	.15	.10	.20		.35				.45			.53	.18	.18					T		.24					1.65
Toano																																1.30	
Wells																																3.84	
Winnemucca																																	
Wood																																	
Eastern Section.																																	
Ely				.25		.10	.30									.34			.14	.14												1.99	
Hamilton							.20									.25			T	.31		.10						.80				1.66	
Central Section.																																	
Austin					.32		.25	.10				.12				.28			.86				.08	.05	.09			.07					2.22
Eureka					.40		.20		T							.50			.04	.10	.03							.10				1.80	
Potts						.06																							.70				0.37
Western Section.																																	
Carson City				.23	.10	.05	.02	.03	.01			.112		T	.23	.62			T	T	T	.87	.22	.15	.62	.22	.41					6.73	
Carson City (W. B.)				.05	.24	T	.18	T	.01			.98	.08		T	.84			T	T								.37	.02			5.85	
Fallon												.18																				1.03	
Glenbrook				.46	.30	.06	.12	.15	.02			3.60		.02	.06				.11	1.00	.90	.275	.15		.65	.50	.90	.05				11.65	
Lewers' Ranch				.34	.26	.20	.23	.40		.07	.277	.50		.04	.04	2.50		T	.03	.294	.115	.318	.192	.40	1.07	.10						18.14	
Martin's Ranch				.70			.12					.50				.81			.08	.09	.26	*		.90	.39		.49					4.34	
Reno				.32		.15		.02			T	.146		T	T	.36			T	T	T	.67	*		1.90	*	.27	.03				4.99	
Wabuska					.13					.30						.10			T	T					.12	.30	.10	T				1.05	
Wadsworth				.10								.10							.50						1.50		.06					2.36	
Southern Section.																																	
Belmont				.08			.04												.27													0.81	
Candelaria				.10	T			.05										T	.01	T							.36					0.34	
Geyser																.25			T	T							.18		.20			†	
Hawthorne				.05	T		T									.06												*				0.26	
McAfee's Ranch							T					T																				0.52	
Morey					.14		T									.15				.15							T	.53				1.07	
Palmetto				.10	T		T																					.80					0.90
Pioche							T									.43				T												1.66	
Sodaville				T			T													T							.21		.17			0.21	
Miscellaneous.																																	
Modena (Utah)					.49			.01	.04																							1.01	
Independence (Cal.)				T	.02	.78	.03	.30	.63	.31	T	T	T	T	.82				T	*	.19	.140	.134	.260	2.86		.14	.184	.20			1.20	
Donner (Cal.)				.35								.13	3.56	1.48	T	.42	.227		T	.37	.84				.75	3.05	.07					18.68	
Independence Lake (Cal.)					.121	.09	.02	.41	.21	T	T	T	T	T	T	.42	.207		.03		.61	1.00	1.19	3.00	2.61	.10	1.13	.15				23.90	
Tahoe (Cal.)				.50			*	*	1.00	T	T	T	T	T	T	*	1.70			T						4.40						15.47	
Lundy (Cal.)				.70																								.40				10.20	
Bridgeport (Cal.)				.04	.14		.99	1.47	.17			.34			.20	T				T	.24	.22	.20	.80		1.03	.38					2.58	
Glen Alpine (Cal.)				.78										1.09	3.27					1.90	2.00	2.07	1.99									19.95	

T indicates trace. \* Precipitation included in that of following day. † Record incomplete.

CARSON CITY, NEVADA:  
STATE PRINTING OFFICE, -  - ANDREW MAUTE, SUPT.

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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR MARCH, 1904.

NEVADA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU

IN COÖPERATION WITH THE

NEVADA STATE WEATHER SERVICE

(CHARLES W. FRIEND, Director.)

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

WILLIS L. MOORE,

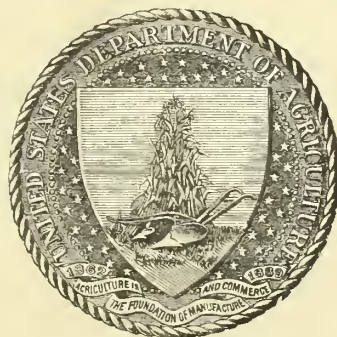
CHIEF OF WEATHER BUREAU,

BY

J. H. SMITH,

SECTION DIRECTOR,

CARSON CITY, NEVADA.

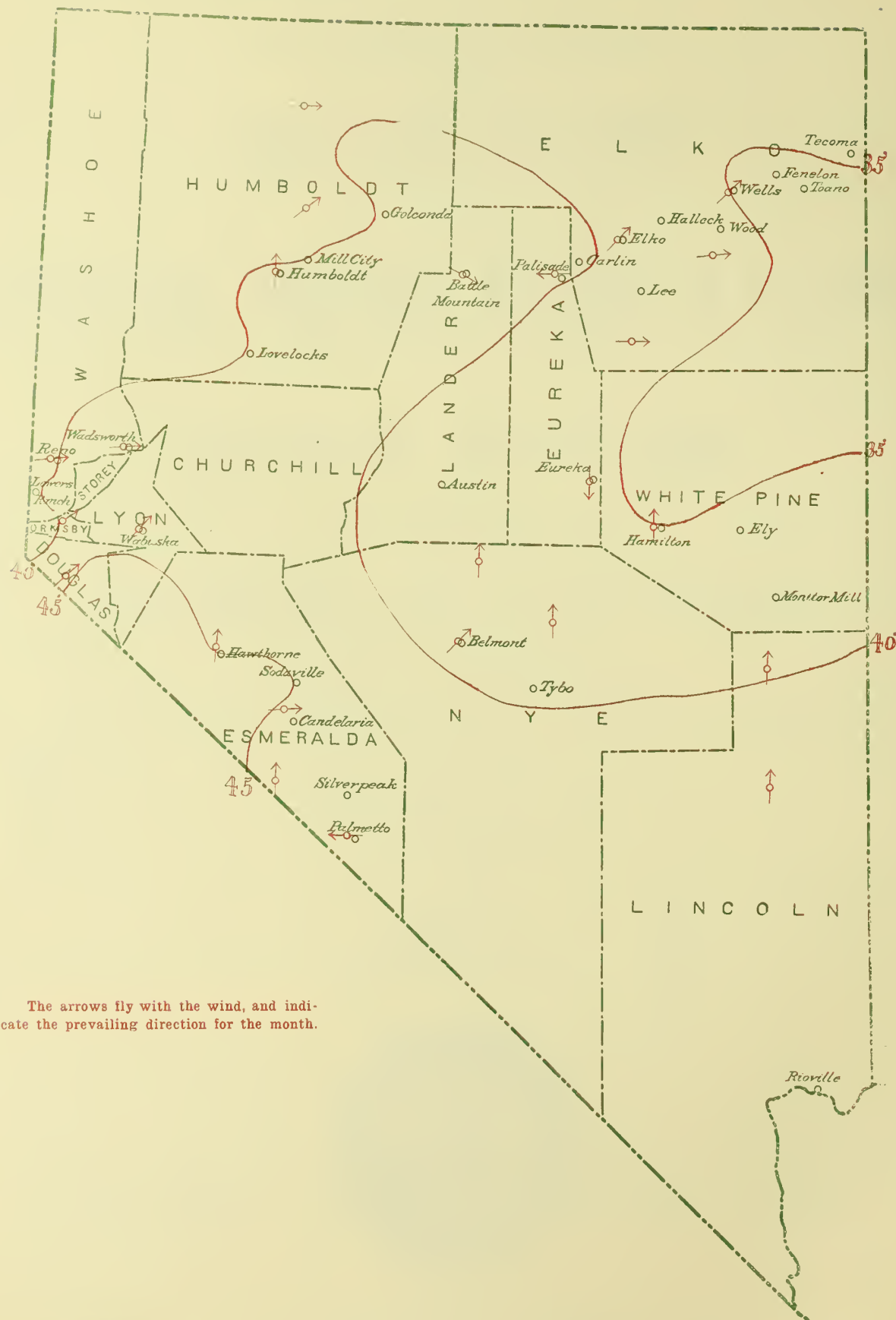


CARSON CITY, NEV.:  
WEATHER BUREAU OFFICE.

April 23, 1904



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR MARCH, 1904.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## NEVADA SECTION.

J. H. SMITH, Section Director,  
CARSON CITY, NEVADA.

VOL. XVIII

CARSON CITY, NEVADA.

No. 3.

## SUMMARY OF WEATHER CONDITIONS.

The weather throughout the month was rather milder than usual, with much cloudiness, frequent high winds and more than the average amount of precipitation over the northern and western portions of the State. In the eastern, central and southern sections the precipitation was somewhat deficient and unevenly distributed. The maximum temperature was recorded at most stations on the 6th and 7th, and the minimum on the 21st, 23d, 24th and 26th.

The weather and soil conditions were favorable, and a great deal of plowing and seeding had been done in the earlier districts at the close of the month.

The condition of stock throughout the State is reported to be very satisfactory, except in some of the southern districts, where the cattle are in poor condition owing to a scarcity of range feed.

## CLIMATOLOGY OF THE MONTH.

## Atmospheric Pressure—Inches and Hundredths.

The mean atmospheric pressure for the State, reduced to sea level, as determined from the records of the United States Weather Bureau stations at Carson City and Winnemucca (Nevada), Modena (Utah), and Independence (California), was 29.87 inches.

The highest pressure, 30.32 inches, was recorded at Winnemucca, on the 26th, and the lowest, 29.21 inches, at Carson City, on the 10th; absolute range for the State, 1.11 inches.

## Temperature—Degrees Fahrenheit.

The mean temperature for the State, as determined from the reports of thirty-six stations, was 39.7, which is 3 above normal, and 1 higher than the mean for the corresponding month of 1903.

By sections, the means were as follows: Northern, 38.5; eastern, 36.5; central, 36.4; western, 42.3; southern, 41.1.

The highest monthly mean, 46.2, was recorded at Martin's Ranch, Douglas County.

The lowest monthly mean, 31.4, was recorded at Toano, Elko County.

The highest temperature, 80, was recorded at Sodaville, Esmeralda County, on the 19th.

The lowest temperature, zero, was recorded at Ely, White Pine County, on the 23d, and at Geyser, Lincoln County, on the 24th.

The absolute range of temperature for the State was 80.

The greatest local daily range of temperature was 53, at Potts, Nye County, on the 16th, and the least, 6, at Reno, Washoe County, on the 8th.

## Precipitation—Inches and Hundredths.

The average precipitation for the State was 1.69 inches, which is 0.11 of an inch above normal, and 0.28 of an inch less than the average for March, 1903.

By sections, the averages were as follows: Northern, 1.70 inches; eastern, 1.56 inches; central, 0.73 of an inch; western, 2.88 inches; southern, 1.69 inches.

The greatest monthly amount, 9.10 inches, was recorded at Lewers' Ranch, Washoe County, and the least, a trace, at Fallon.

The greatest amount recorded in any twenty-four consecutive hours was 1.54 inches, at Lewers' Ranch, on the 19th.

## Relative Humidity.

Carson City—8 a. m., 78 per cent; 8 p. m., 63 per cent; monthly mean, 70 per cent.

Winnemucca—8 a. m., 79 per cent; 8 p. m., 55 per cent; monthly mean, 67 per cent.

Modena (Utah)—8 a. m., 73 per cent; 8 p. m., 59 per cent; monthly mean, 66 per cent.

## Wind and Weather.

The prevailing direction of the wind was from the southwest.

The total wind movement at Carson City was 9,351 miles; Winnemucca, 9,689 miles; Modena (Utah), 9,963 miles; Independence (California), 6,490 miles.

The maximum velocity at Carson City was 60 miles per hour, from the southwest, on the 17th; Winnemucca, 54 miles per hour, from the southwest, on the 1st; Modena, 63 miles per hour, from the southwest, on the 20th, and 50 miles per hour, from the west, at Independence, on the 19th.

The average number of clear days was 8; partly cloudy, 8; cloudy, 15; day with .01 of an inch or more of precipitation, 8.

## MISCELLANEOUS PHENOMENA.

(Stations and Dates of Occurrence.)

Fog—Geyser, 28th.

Sleet—Lewers' Ranch, 8th, 11th; Palmetto, 29th; Winnemucca, 28th.

Hail—Belmont, 8th, 10th; Carlin, 8th, 23d, 29th; Crane's Ranch, 29th; Ely, 23d; Fenelon, 7th, 10th, 24th, 27th, 30th; Lee, 18th; Halleck, 8th; Hamilton, 1st, 4th, 6th, 18th, 20th, 23d, 30th.

Killing Frost—Potts, 1st to 31st; Fallon, 22d; Halleck, 20th, 21st, 22d, 23d, 21th, 25th, 27th, 29th, 30th, 31st; Winnemucca, 2d, 3d, 5th, 11th, 12th, 20th, 21st, 22d, 24th, 25th, 26th, 31st.

Thunderstorms—Crane's Ranch, 28th; Geyser, 8th, 28th; Halleck, 29th; Martin's Ranch, 19th; Lee, 4th, 7th, 8th; Mill City, 26th; Winnemucca, 4th, 28th.

## COMPARATIVE TEMPERATURE AND PRECIPITATION DATA FOR MARCH DURING THE PAST SIXTEEN YEARS.

Year.	Mean.	Temperature Highest.	Lowest.	Average Precipitation Inches and 100ths.
1889	44.1	85	12	1.45
1890	39.0	82	15	1.71
1891	38.9	78	2	1.55
1892	40.3	78	-2	1.81
1893	35.9	85	-21	1.90
1894	38.4	88	-13	1.02
1895	37.7	80	-23	0.82
1896	39.4	90	-18	1.15
1897	30.9	80	19	1.39
1898	35.0	79	-10	0.63
1899	38.6	79	4	1.83
1900	44.2	81	5	0.51
1901	38.9	90	0	0.59
1902	35.2	69	0	1.47
1903	38.7	90	-8	1.41
1904	39.7	80	0	1.69

## REMARKS OF VOLUNTARY OBSERVERS AND CLIMATE AND CROP CORRESPONDENTS.

Wells—The month has been very wet and stormy, with a severe storm on the 23d. Range stock in fair condition. A. H. WISEMAN.

Lee—An unusual amount of stormy weather during the entire month. Range feed backward; stock in fair condition; hay will be scarce in a short time. MISS JENNIE WILLIAMS.

Elko—March, 1904, has been the wettest month known in this section for many years. Stock that was turned out about the middle of the month suffered from late storms, and quite a number perished. C. H. SPOULE.

Tecoma—Very wet month. Range stock looking well. JAS. BUCKLEY.

Lamoille—A very wet and stormy month. The frost has been out of the ground for over a month. Range feed is starting nicely, and cattle have been turned out. Stock wintered in good condition. The water supply should be good next summer. G. M. BOWER.

Deeth—The weather throughout the month has been stormy and unpleasant. We had sunshine on the 2d and 3d, but not again until the 28th. Stock thin; range feed growing nicely, but needs sunshine. J. H. O'BRIEN.

Bullion—First part of month warm with copious rains, latter half colder with snow and rain. Grass has started nicely, and range stock is doing well. F. J. FRANK.

Paradise—The wettest March in twelve years; not a clear day during the month. Range in fine condition, and stock of all kinds looking well. T. J. BRADSHAW.

Rebel Creek—From the 1st to the 15th we had rain or snow every day. On the 19th we had a good rain, and on the 26th a good fall of snow, 8 inches in the hills. Stock looking well and turned out on the range. R. McLERAN.

Amos—The weather for the month has been most beneficial to stock interests. The ranges are in good condition, thoroughly soaked, and stock of all kinds looking well; good grass on the foothills. F. M. PAYNE.

Ely—The proverbially stormy March is passing. Rain, hail and snow, the latter accumulating on the mountains. Foothills and valleys thoroughly wet. Early range grass assured. Range stock have declined in flesh dur-



ing the month, but yet in fair condition. We are not turning out winter stock yet.

H. A. COMINS.

**Shoshone**—The first part of the month was mild and cloudy at times, latter part windy with light flurries of snow; 2 to 4 inches of snow fell about the 10th, and about 8 inches on the 24th; several light falls of snow and sleet from the 20th to the 25th. The range feed is fairly good and stock doing well.

GEO. SWALLOW.

**Illipah**—The weather of the month has been wet, cold and disagreeable. Range feed very poor, and stock not looking well.

W. M. MOORMAN.

**Hot Creek**—Cattle are in fair condition, and the ranges give promise of good feed, as we have had some storms during the month.

J. T. WILLIAMS.

**Geyser**—March, 1904, has been a cold, windy and disagreeable month, with very little precipitation. The outlook for the ranges is not encouraging at present. Stock is looking well and have wintered without loss.

A. D. CAMPBELL.

**Hiko**—March has kept up its reputation for wind. There has been no snow in the valley and but little rain. The range is very poor, and stock had to be fed all winter.

JOS. FRENCH.

**Overton**—The month has been cold and windy. Heavy frost on several mornings the latter part of the month damaged fruit considerably. Range very dry; stock improving in condition.

T. J. JONES.

**Battle Mountain**—A fine spring appears to have come upon us at this early date. Frequent and abundant warm rains started the grass nicely in the low hills, and stock is doing well. The ground is thoroughly soaked and in fine condition for plowing and seeding.

B. F. WILSON.

**Wadsworth**—The first few days of the month were mild and pleasant, but since then it has been cold and windy. Stock doing well.

T. G. HERMAN.

**Reno**—A month of storms, high winds and heavy showers of rain. Ranges coming into fine condition; stock doing well. On March 31st no fruit trees were in bloom, but buds were beginning to show. Warm rains on the Tahoe watershed threatened to destroy the dam at the head of the Truckee. This caused general alarm in Reno and on the Truckee Meadows. The danger was much exaggerated.

SAMUEL B. DOTEN.

**Wabuska**—High winds, snow and rain squalls prevailed in the valleys, with considerable snowfall in the mountains. Weather has been favorable for sheep on ranges and horses and cattle feeding on stubble and dry grass on ranches.

J. G. YOUNG.

**Dayton**—The current month has been unusually stormy, with more rain than ever before known in March in this locality. The condition of the ranges and stock is good. Feed is starting nicely.

THOS. P. MACK.

**Fallon**—March, 1904, has been cold and windy, with blustering local storms. Grass just starting. Stock in good condition, but will have to be fed well into April.

J. W. FERGUSON.

**Dyer**—March has been an exceedingly mild and warm month for this section. Very little cold north wind. Grass and early vegetables and trees showing signs of spring. Stock doing well.

G. A. MCAFEE.

**Carlin**—On the 8th a heavy windstorm damaged the roof of the round house and blew down fences.

GEO. H. KENYON.

**Eureka**—Some of the oldest residents here say that the past winter has been the driest since 1864.

GEO. L. BROY.

**Halleck**—More rain than usual for March.

W. H. BRANDENBURG.

**Lewers' Ranch**—A very wet March. Grass starting nicely; ground too wet for plowing.

MRS. ROSS LEWERS.

**Lovelock**—Generally stormy during the month. The outlook is favorable for large crops and plenty of feed for range stock.

L. L. MUSHETT.

**Wood**—A very stormy and windy month. Range stock doing fairly well. Grass starting nicely, and ground is thoroughly soaked.

A. H. WISEMAN.

#### SNOWFALL IN THE MOUNTAINS.

The precipitation during March was slightly deficient in southern sections, but over the northern half of the State it was in excess of the normal and fairly well distributed.

The heavy storms during the month increased the depth of snow in the mountains to a considerable extent. In the high Sierra the snow is well packed and practically solid ice in many of the ravines and gulches. Reports indicate that there is sufficient snow in the mountains comprising the watersheds of the State to maintain a good flow of water in the streams until late in the summer. The outlook is unusually promising for a good water supply during the summer months.

#### EXTRACTS FROM REPORTS OF CORRESPONDENTS.

##### Humboldt River Watershed.

**Anderson**—More snow in the mountains than last year at this time.

E. C. HARDESTY.

**Battle Mountain**—Less snow than usual for March.

W. T. UREN.

**Bullion**—Less snow but more rain.

F. J. FRANK.

**Carlin**—Less than the usual amount of snow for March.

GEO. H. KENYON.

**Humboldt**—More snow in the mountains than last year at the end of March.

J. J. CULLEN.

**Lamoille**—Prospects favorable for more water than last year.

G. M. BOWER.

**Lovelock**—The waterflow will be the best in years; supply will be adequate for all requirements.

L. L. MUSHETT.

**Palisade**—No snow on the hills and but very little on the high mountains.

J. A. FERRARO.

**Paradise**—Prospects favorable for a good waterflow this season.

T. J. BRADSHAW.

**Rebel Creek**—Less snow in the mountains than last year.

R. McLERAN.

**Unionville**—More snow in the mountains than last year at the end of March.

LIZZIE FELLOWS.

**Winnemucca**—Prospects are better now for a good waterflow than for the past five years.

J. C. HAYDEN.

##### Truckee Watershed.

**Boca**—The snowfall during the month has been greater than for any March in the last three years.

A. D. TOURTILLOTTE.

**Floriston**—There is about 15 inches more snow in the mountains than last year at this time; prospects favorable for a good waterflow this season.

M. FLEISHACKER.

**Glenbrook**—More snow than usual for March.

D. COILLARD.

**Independence Lake**—The rains during the month have packed the snow very solid.

C. J. GEPPER.

**Reno**—Much of the mountain snow has melted, but the waterflow in this locality will certainly be much greater than last year.

SAMUEL B. DOTEN.

**Donner Lake**—Prospects are favorable for a better flow of water than we had last year.

F. R. WILLIAMS.

**Wadsworth**—The mountain ranges contain about the usual amount of snow. The waterflow will be about the same as last year.

T. G. HERMAN.

##### Walker River Watershed.

**Bodie**—Very much more snow in the mountains than last year at this time.

E. R. BROOKS, M.D.

**Bridgeport**—More snow in the mountains than last year. Fine prospects for a good waterflow this season.

GEO. A. MONTROSE.

##### Carson River Watershed.

**Carson City**—Storms were frequent in the mountains and considerable snow was piled up in the ravines and gulches. The waterflow will be somewhat better than last year.

J. H. SMITH.

**Genoa**—More snow in the mountains than there was up to the corresponding date last year.

W. S. JOHNSON.

**Dayton**—The depth of snow in the mountains is about the same as last year at this time.

THOS. P. MACK.

**Sheridan**—There is about 4 feet of snow in the mountains and it is very solid.

POSTMASTER.

**Gold Hill**—About the usual amount of snow in the mountains in this vicinity.

C. J. WAIDER.

#### TABLE OF SNOWFALL.

Depth in Inches.					
Station.	County.	Compared with average for March.	On ground at station March 31st.	At or near summit of mountains.	Prospective waterflow compared with last season.
			Inches.	Inches.	
<i>Humboldt Watershed:</i>					
Anderson	Elko	More	0		Greater
Battle Mountain	Lander	Less	0	24	Greater
Bullion	Elko	Less	4	18	Less
Carlin	Elko	Less	0	2	Less
Humboldt	Humboldt	More	0	36-48	Greater
Lamoille	Elko	More	1	72-96	Greater
Lee	Elko	More	0	60	Greater
Lovelock	Humboldt	More	0	36-48	Greater
Palisade	Eureka	Less	0	6	Less
Paradise	Humboldt	More	0	96-120	Greater
Rebel Creek	Humboldt	Less	0	10	Greater
Unionville	Humboldt	More	0		Greater
Winnemucca	Humboldt	More	0	144-300	Greater
<i>Truckee Watershed:</i>					
Boca, Cal.	Nevada	More	12		Greater
Donner Lake, Cal.	Nevada	More	36	180	Greater
Floriston, Cal.	Nevada	More	4	60	Greater
Glenbrook	Douglas	More	6	12-36	Greater
Independence Lake, Cal.	Sierra	More	96	156	Greater
Reno	Washoe	More	0	48-96	Greater
Tahoe City, Cal.	Placer	More	40	84-96	Greater
Wadsworth	Washoe	Less	0	12	Average
Marlette Lake, Nev.	Ormsby	More	112	120	Greater
<i>Walker Watershed:</i>					
Bodie, Cal.	Mono	More	6	180	Greater
Bridgeport, Cal.	Mono	Average	0	144	Greater
Holbrook, Nev.	Douglas	More	0		Average
Lundy, Cal.	Mono	More	42	180	Greater
Markleville, Cal.	Alpine	More	0	120-170	Greater
Schurz	Esmeralda	More	0	2	Greater
Sweetwater	Esmeralda	Average	0	36	Greater
Topaz, Cal.	Mono	More	0		Greater
<i>Carson Watershed:</i>					
Carson City	Ormsby	More	0	36	Greater
Dayton	Lyon	Average	0		Greater
Genoa	Douglas	More	0	72-100	Greater
Gold Hill	Storey	Average	0		Average
Sheridan	Douglas	More	0	48	Average
<i>Reese Watershed:</i>					
Austin	Lander	Average	0	8-10	Less
Galena	Lander	More	0	10-12	Greater



## CLIMATOLOGICAL DATA FOR MARCH, 1904.

Stations	Counties	Elevation (feet)	Length of record (years)	Temperature (degrees Fahrenheit)						Precipitation (inches)						Days						Remarks
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total number of months	Number of rainy days	Number of days with snow	Number of days with frost	Number of days with ice				
Northern Section.																						
Battle Mountain-1	Lander	4,511	31	42.1	+1.2	70	5	12	25	15	0.60	+0.15	0.40	1.0	2	0	6	25	SW	Agent So. Pacific Co.		
Beowawe-3	Eureka	1,695	34	37.6	3.3	59	19	22	22		0.65	0.02	0.20	3.0	5	22	0	9		Agent So. Pacific Co.		
Carlin-3	Elko	1,897	34	40.6	+5.1	62	7	26	25		1.10	-0.50	0.50	12.9	7	9	1	21	SW	Agent So. Pacific Co.		
Crane's Ranch†	Elko	5,330	17								1.19	+0.15	0.26		16	1	3	27	W	W. T. Crane		
Elko-1	Elko	5,063	34	38.8	+3.5	58	4	11	4	17	3.85	+3.03	0.60	11.5	11	5	6	20	SW	C. H. Sprague		
Golconda-3	Humboldt	1,392	26	39.6	-2.9	63	7	23	25		0.90	+0.31	0.50	6.0	3	3	1	27		Agent So. Pacific Co.		
Hallock-3	Elko	5,229	32	35.8	-0.1	75	3	20	24		2.01	+1.20	0.50	8.2	12	3	23	5		Agent So. Pacific Co.		
Humboldt-1	Humboldt	4,236	33	40.8	1.2	66	6	18	21	35	1.63	-1.01	0.50	2.5	14	1	1	26	S	Agent So. Pacific Co.		
Lee	Elko		6								3.13	+2.41	0.50	17.5	14	1	5	25	S	Miss Jennie Williams		
Lovelock-1	Humboldt	3,977	13	40.0	3.8	59	15	30	15		1.50	+1.32			15	1	15			Agent So. Pacific Co.		
Mill City-3	Humboldt	4,225	16	40.5	-0.3	53	16	24	22		0.55	-0.07	0.15	2.0	5	10	0	21		Agent So. Pacific Co.		
Palisade-1	Eureka	4,821	23	40.4	+2.8	67	6	15	11	44	0.63	-0.08	0.20		7	21	0	7		Agent So. Pacific Co.		
Quinn River Ranch-1	Humboldt	4,850	3	40.0		68	19	15	25	34	2.23		0.39		17	8	7	16	W	F. M. Payne		
Tecoma-1	Elko	4,812	27																	Agent So. Pacific Co.		
Toano-3	Elko	5,975	35	31.1	-3.1	50	22	11	23		0.40	0.47	0.20	4.0	4	17	7	7		Agent So. Pacific Co.		
Wells-3	Elko	5,623	33	35.1	-1.1	52	16	11	25		3.12	+2.05	0.90	10.0	13	3	2	26	SW	Agent So. Pacific Co.		
Winnemucca-1	Humboldt	4,432	26	38.7	-2.0	61	7	20	26	31	1.47	+0.59	0.42	6.5	20	3	2	26	SW	U. S. Weather Bureau		
Wood-1	Elko	6,000	5	36.6		62	6	12	23	39	3.11		0.54		18	1	13	17	W	A. H. Wiseman		
Means				38.5	-0.4						1.70	+0.77		7.5	11	7	5	19	SW			
Eastern Section.																						
Ely-1	White Pine	6,000	17	38.4	+6.3	67	3	0	23	37	1.13	0.90	0.24	3.0	8	11	6	14		D. S. Dickerson		
Hamilton-1	White Pine	7,977	4	34.6		44	30	22	1	19	2.00		1.10	20.0	4	8	10	13	S	Mrs. J. F. Beck		
Means				36.5	+6.3						1.56	-0.90		11.5	6	9	8	14	S			
Central Section.																						
Austin-1	Lander	6,594	16	36.6	+5.0	58	6	13	12	34	0.88	-0.50	0.30		12					H. W. Dyer		
Eureka-1	Eureka	6,990	2	36.7		64	19	9	27	50	1.00		0.60	9.0	2	17	12	2	N	Geo. L. Broy		
Potts-1	Nye	6,826	12	36.0	+5.6	69	17	1	25	53	0.30	-0.53	0.20	3.0	2	3	7	21	S	Miss Bessie Potts		
Means				36.4	+5.3						0.73	-0.52		6.0	5	10	9	12	S			
Western Section.																						
Carson City-2	Ormsby	4,600	25	41.0	-0.2	64	6	19	21	35	2.51	+1.18	0.82	7.6	17	6	18	7	SW	C. W. Friend		
Carson City (W. B.)-1	Ormsby	4,720	15	40.4	-0.8	62	6	19	21	43	1.99	+0.66	0.52	6.6	13	5	9	17	SW	U. S. Weather Bureau		
Fallon-1	Churchill		1	43.8		69	23	15	21	50	T		T	0.0	0					Mrs. Ida Dolf		
Glenbrook	Douglas	6,282									6.50		1.60		20	1	0	30	SW	D. Couillard		
Lewers' Ranch-1	Washoe	5,200	17	40.4	+1.0	64	7	18	21	30	9.10	+6.05	1.54	13.0	21	7	13	11	SW	Mrs. Ross Lewers		
Martin's Ranch-1	Douglas	4,830	6	46.2	+5.0	77	3	18	22	50	1.46	+0.13	0.40	2.0	5	15	8	8	SW	Mrs. J. H. Martin		
Reno-1	Washoe	4,484	34	40.5	-0.5	62	3	19	21	33	2.12	+1.47	0.56	0.0	8	7	8	16	W	S. B. Doten		
Wabuska-1	Lyon	4,347	2	43.2		70	3	10	11	48	0.71		0.32	T	5	3	15	13	SW	J. H. Harcourt		
Wadsworth-1	Washoe	4,077	33	43.2	-1.8	64	5	10	21		1.50	+1.19	0.50	T	5	21	5	5	W	Agent So. Pacific Co.		
Means				42.3	+0.5						2.88	+1.78		3.4	10	8	10	13	SW			
Southern Section.																						
Belmont-1	Nye	8,132	13	33.7	+0.2	57	7	2	24	41	0.31	-0.72	0.21	1.0	3	3	18	10	SW	W. N. Granger		
Candelaria-1	Esmeralda	5,783	15	43.6	+3.5	68	18	16	25	32	0.46	+0.18	0.29	T	3	9	13	9	W	A. G. Draper		
Geyser-1	Lincoln			38.8		67	19	0	24	44	0.99		0.80	4.5	4	14	4	13	S	A. D. Campbell		
Hawthorne-1	Esmeralda	4,569	17	45.2	+4.6	78	17	17	12	44	0.45	+0.10	0.40	0.0	2	4	1	26	S	T. G. Watterson		
McAfee's Ranch-1	Esmeralda	4,835	1	42.2		73	19	10	12	49	0.66		0.31	0.0	3				S	G. A. McAfee		
Morey-1	Nye	7,384	1	37.8		68	6	5	24	40	2.07		1.20	16.0	6	0	30	1	S	Jas. B. Gilmore		
Palmetto-1	Esmeralda	6,500	15	39.7	+1.2	67	19	10	25	40	0.80	-1.71	0.30	8.0	5	13	11	7	E	Wm. Oothout, Jr.		
Pioche-1	Lincoln	6,100		43.6		70	7	15	24	39	1.34		0.70	4.0	3	10	13	8		A. A. Carman		
Sodaville-1	Esmeralda	4,665	6	45.0		80	19	15	11	51	0.34		0.23	0.0	2	12	13	6	SW	Agent So. Pacific Co.		
Means				41.1	+3.1						0.82	-0.56		3.7	3	8	13	10	S			
State Means				39.7	+3.0						1.69	+0.11		5.7	8	8	8	15	SW			
Miscellaneous.																						
Modena (Utah)-1	Iron	5,470	4	40.8		66	6	11	24	36	0.98		0.36	1.5	10	13	14	4	SW	U. S. Weather Bureau		
Independence (Cal.)-1	Inyo	3,721	8	50.9		75	2	28	25	31	0.95		0.63	0.0	6	10	5	16	NW	U. S. Weather Bureau		
Tamarack (Cal.)											16.87		2.09	138.0	22	5	4	22	SW	William Bennett		
Donner (Cal.)	Nevada	6,095									12.52		1.64	95.5	26	6	6	19	SW	F. R. Williams		
Independence Lake (Cal.)	Sierra										20.48		2.96	96.4	24	0	12	19	SW	C. J. Gepper		
Tahoe (Cal.)	Placer	6,252									10.69		1.70	44.0	29				SW	J. C. Haley		
Lundy (Cal.)	Mono										7.58		3.00	76.0	10					Al Taylor		
Bridgeport (Cal.)	Mono	6,423									1.85		0.52	13.5	7	6	15	10		Geo. A. Montrose		
Glen Alpine (Cal.)	Eldorado										22.63		2.75		23	6	0	25	S-SW	Jos. Pacilli		

REFERENCES: 1. Weather Bureau maximum and minimum thermometers in use; 2. self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3. means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed before the name of a station, or against the data in the body of the form, indicates the number of days missing from the record; for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

\* Not considered in computing State or district means.

† Postoffice—Elko. ‡ Postoffice—Franktown. § Postoffice—Gardnerville. ¶ Postoffice—Amos.



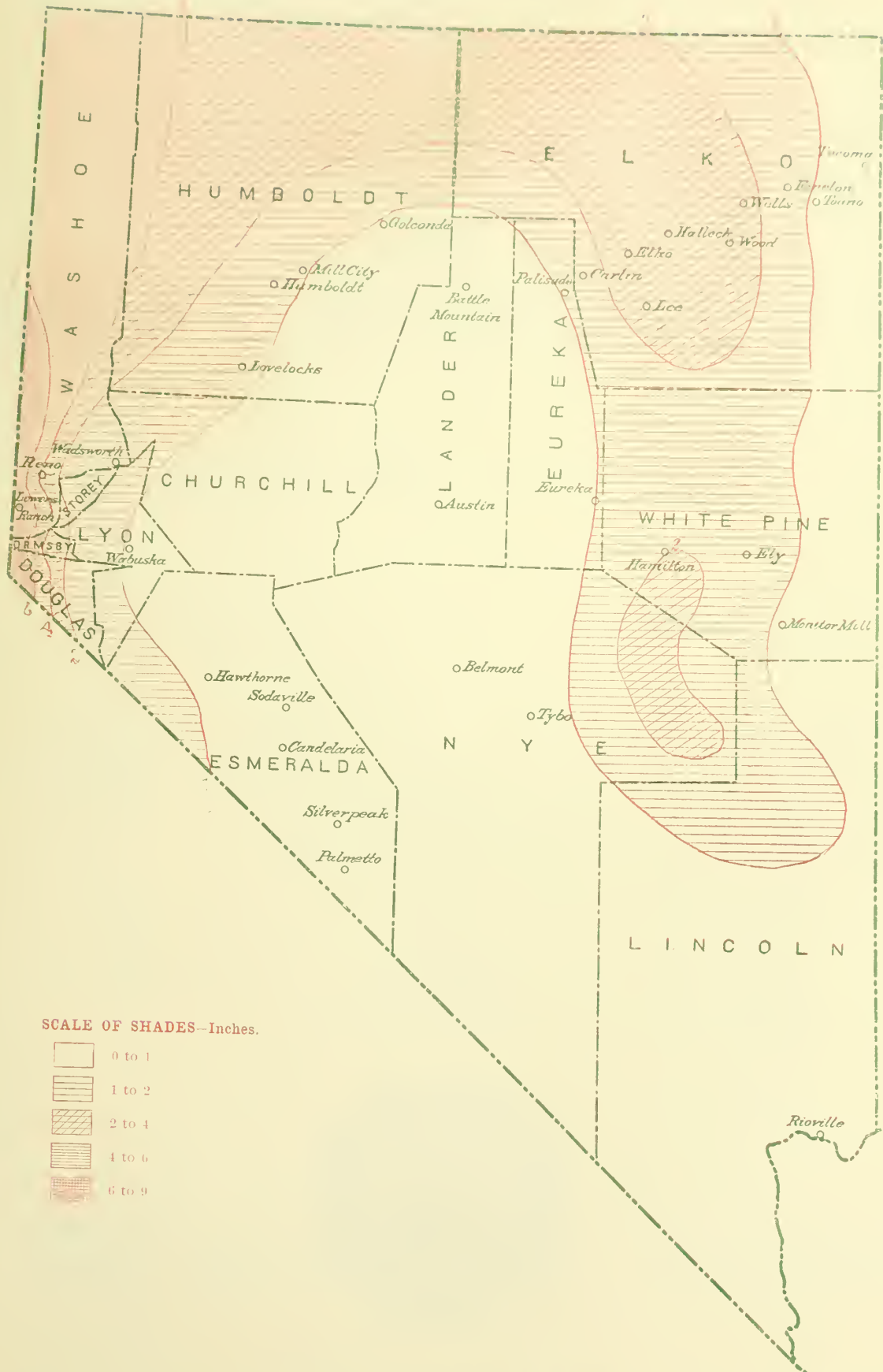
DAILY MAXIMUM AND MINIMUM TEMPERATURES FOR MARCH, 1904.

Stations.	Day of Month.																															Monthly means.																																																																																																																																																																																																																								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31																																																																																																																																																																																																																									
Anstsin	Max. 55	54	54	56	49	58	56	54	36	46	42	38	47	51	45	50	57	56	57	53	48	47	41	32	30	37	43	52	58	38	39	47.6																																																																																																																																																																																																																								
Battle Mountain	Min. 31	37	34	32	28	34	32	32	70	65	62	65	58	60	55	50	52	51	54	60	62	65	60	50	52	15	21	20	23	21	65	49	25.5																																																																																																																																																																																																																							
Belmont	Max. 60	63	60	62	70	68	70	70	30	38	32	25	35	28	25	20	26	32	34	34	37	43	38	16	18	12	15	20	25	28	25	30	21.1																																																																																																																																																																																																																							
Belmont	Min. 46	51	55	45	46	55	57	57	38	38	33	13	17	15	12	10	14	16	18	18	20	22	22	2	2	12	32	32	25	47	13	38	44.8																																																																																																																																																																																																																							
Candelaria	Max. 32	32	32	26	38	32	37	37	63	49	46	49	52	63	55	56	56	68	68	47	45	49	45	43	19	16	37	61	66	58	42	18	55.5																																																																																																																																																																																																																							
Candelaria	Min. 61	67	62	58	53	64	64	63	40	32	21	19	20	34	35	32	32	42	41	42	26	29	21	13	13	16	30	37	52	32	32	27	50.6																																																																																																																																																																																																																							
Carson City	Max. 56	58	58	58	50	61	64	64	51	42	38	38	54	54	55	56	64	64	58	35	38	46	36	36	41	47	61	56	48	52	53	51	50.6																																																																																																																																																																																																																							
Carson City (W. B.)	Min. 34	40	28	37	30	41	43	34	30	27	25	22	28	37	35	35	26	41	48	34	34	25	25	21	30	40	32	39	37	49	51	49.0																																																																																																																																																																																																																								
Carson City	Max. 55	56	61	55	50	62	62	51	42	38	38	23	48	52	50	51	52	53	59	27	37	45	34	30	40	45	39	54	49	50	51	49.0																																																																																																																																																																																																																								
Elko	Min. 40	40	39	39	36	41	43	35	30	26	24	23	28	36	37	37	50	52	53	34	26	26	22	22	40	46	30	32	40	36	29	31.7																																																																																																																																																																																																																								
Elko	Max. 49	46	37	38	34	32	30	34	55	51	42	54	54	51	52	50	52	56	52	47	51	48	47	47	47	46	46	50	51	48	50	52	51.1																																																																																																																																																																																																																							
Ely	Max. 58	60	67	67	69	62	64	59	53	50	46	43	48	49	56	51	54	59	61	54	36	37	34	34	27	34	34	35	35	32	24	26	51.4																																																																																																																																																																																																																							
Ely	Min. 41	24	30	23	29	32	34	30	21	21	20	28	28	40	30	26	34	36	37	26	46	48	48	36	41	47	55	60	48	42	42	48	51.4																																																																																																																																																																																																																							
Eureka	Max. 42	30	60	55	50	60	62	60	52	60	55	60	40	44	55	60	60	48	64	50	62	47	51	42	19	10	32	59	60	55	40	50	53.2																																																																																																																																																																																																																							
Fallon	Min. 19	19	64	63	61	61	54	53	39	68	63	64	62	63	61	63	63	64	66	68	65	68	69	62	64	65	68	67	65	63	65	63	63.4																																																																																																																																																																																																																							
Fallon	Max. 60	63	64	62	56	62	64	60	55	58	58	57	60	62	61	60	62	61	63	64	66	65	68	69	62	64	65	68	67	65	63	65	63	63.4																																																																																																																																																																																																																						
Geyser	Max. 55	55	63	64	62	50	62	64	60	55	48	44	45	57	60	62	61	59	63	67	67	65	60	49	37	40	51	58	42	56	47	40	51.5																																																																																																																																																																																																																							
Geyser	Min. 27	40	24	30	18	24	30	30	12	22	24	41	43	40	41	43	42	43	40	41	42	43	42	40	41	42	41	41	42	43	44	42	40.9																																																																																																																																																																																																																							
Hamilton	Max. 41	39	20	38	30	39	40	39	38	29	28	29	31	28	29	30	29	28	29	55	50	49	50	50	26	40	50	57	49	50	62	55	28.3																																																																																																																																																																																																																							
Hamilton	Min. 22	25	26	26	26	26	26	26	28	28	28	46	46	54	57	55	58	58	58	55	50	49	32	28	25	26	30	29	30	38	28	30	28.3																																																																																																																																																																																																																							
Humboldt	Max. 49	56	60	65	60	65	63	58	29	48	35	39	25	28	29	32	25	28	30	64	64	64	64	64	28	28	30	29	29	30	62	55	28.3																																																																																																																																																																																																																							
Humboldt	Min. 28	26	33	38	30	35	38	38	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	28.3																																																																																																																																																																																																																							
Hawthorne	Max. 70	66	63	58	62	68	68	63	58	58	58	55	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	60.3																																																																																																																																																																																																																						
Hawthorne	Min. 28	33	27	37	38	28	35	35	35	35	35	41	45	42	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	48.8																																																																																																																																																																																																																						
Lewers' Ranch	Max. 42	36	60	57	30	63	64	53	41	33	42	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	48.8																																																																																																																																																																																																																						
Lewers' Ranch	Min. 29	31	44	38	40	43	41	33	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	48.8																																																																																																																																																																																																																						
Lovelock*	Max. 45	45	44	40	33	45	54	48	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	48.8																																																																																																																																																																																																																						
Lovelock*	Min. 35	32	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	48.8																																																																																																																																																																																																																						
Martin's Ranch	Max. 54	54	77	67	62	71	73	70	53	55	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42

\*Extremes of temperature from readings of ordinary thermometer at 7 a. m., 2 p. m., and 9 p. m.



TOTAL PRECIPITATION FOR MARCH, 1904





DAILY PRECIPITATION FOR MARCH, 1904.

[illegible]

\* Precipitation included in that of following day.

CARSON CITY, NEVADA:

PRINTING OFFICE -  - ANDREW MAUTE, SUPT.

1904



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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR APRIL, 1904.

## NEVADA SECTION

OF THE

# CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU

IN COÖPERATION WITH THE

## NEVADA STATE WEATHER SERVICE

(CHARLES W. FRIEND, Director.)

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU,

BY

J. H. SMITH,

SECTION DIRECTOR,

CARSON CITY, NEVADA.

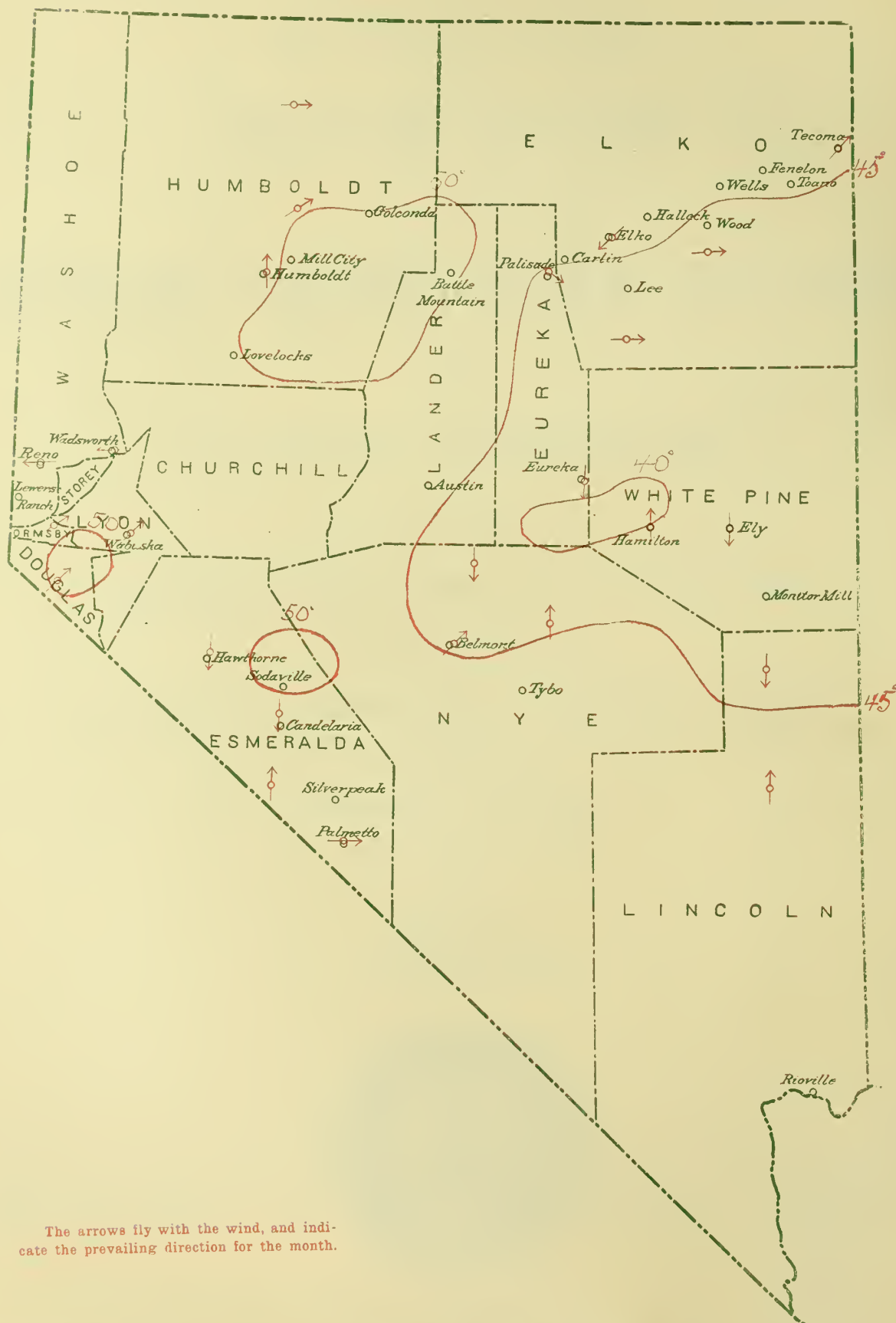


CARSON CITY, NEV.  
WEATHER BUREAU OFFICE.

May 28, 1904



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR APRIL, 1904.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION.

J. H. SMITH, Section Director,  
CARSON CITY, NEVADA.

VOL. XVIII

CARSON CITY, NEVADA.

No. 4.

## CLIMATOLOGY OF THE MONTH.

The mean atmospheric pressure for the State, reduced to sea level, as determined from the records of the United States Weather Bureau stations at Carson City and Winnemucca (Nevada), Modena (Utah), and Independence (California), was 29.95 inches.

The highest pressure, 30.36 inches, was recorded at Winnemucca, on the 1st, and the lowest, 29.40 inches, at Carson City, on the 26th.

## Temperature—Degrees Fahrenheit.

The mean temperature for the State, as determined from the reports of thirty-seven stations, was 45.4, which is 0.6 below normal, and 0.2 higher than the mean for the corresponding month of 1903.

By sections, the means were: Northern, 47.3; eastern, 40.6; central, 43.8; western, 48.7; southern, 46.6.

The highest monthly mean, 55.1, was recorded at Wadsworth, Washoe County.

The lowest monthly mean, 38.0, was recorded at Hamilton, White Pine County.

The highest temperature, 97, was recorded at Martin's Ranch, Douglas County, on the 11th.

The lowest temperature, 10, was recorded at Hamilton, White Pine County, on the 19th; Eureka, Eureka County, and Potts, Nye County, on the 1st, and Geyser, Lincoln County, on the 24th.

The greatest local daily range of temperature was 64, at Martin's Ranch, Douglas County, on the 11th.

## Precipitation—Inches and Hundredths.

The average precipitation for the State, as determined from the reports of all stations, was 0.66 of an inch, which is 0.16 of an inch below normal, and 0.19 of an inch above the average for the corresponding month of 1903.

By sections, the averages were as follows: Northern, 0.83 of an inch; eastern, 0.68 of an inch; central, 1.10 inches; western, 0.34 of an inch; southern, 0.36 of an inch.

The greatest monthly amount, 1.98 inches, was recorded at Austin, Lander County, and the least, none, at Wadsworth, Washoe County.

The greatest amount recorded in any twenty-four consecutive hours was 0.90 of an inch, at Tecoma, Elko County, on the 30th.

## Relative Humidity.

Carson City—8 a. m., 76 per cent; 8 p. m., 43 per cent; monthly mean, 60 per cent.

Winnemucca—8 a. m., 40 per cent; 8 p. m., 40 per cent; monthly mean, 40 per cent.

Modena (Utah)—8 a. m., 62 per cent; 8 p. m., 24 per cent; monthly mean, 43 per cent.

## Wind and Weather.

The prevailing direction of the wind was from the south west.

The total movement of the wind at Carson City was 5,697 miles; Winnemucca, 7,617 miles; Modena (Utah), 9,182 miles; Independence (California), 6,687 miles. The maximum velocity at Carson City was 33 miles per hour, from the southwest, on the 18th; Winnemucca, 41 miles per hour, from the southwest, on the 19th; Modena, 60 miles per hour, from the southwest, on the 26th, and 42 miles per hour, from the southeast, at Independence, on the 26th.

The average number of clear days was 15; partly cloudy, 7; cloudy, 8; days with .01 of an inch or more of precipitation, 3.

## MISCELLANEOUS PHENOMENA.

(Stations and Dates of Occurrence.)

*Solar Halos*—Carson City, 16th; Reno, 16th.

*Killing Frost*—Potts, 1st to 30th; Lewers' Ranch, 23d; Halleck, 1st, 2d, 4th, 24th, 26th; Carson City, 1st, 2d, 4th, 5th, 16th, 17th, 23d, 24th, 29th.

*Thunderstorms*—Austin, 20th; Candelaria, 25th; Halleck, 15th; Morey, 20th, 22d; Palmetto, 19th; Potts, 30th; Sodaville, 26th.

*Hail*—Belmont, 18th, 19th, 20th, 26th, 30th; Candelaria, 19th; Crane's Ranch, 17th, 30th; McAfee's Ranch, 19th, 20th, 22d, 26th; Eureka, 19th; Fenelon, 16th, 18th, 21st, 29th, 30th; Halleck, 3d; Palmetto, 19th; Pioche, 20th, 23d; Potts, 3d; Sodaville, 26th.

COMPARATIVE TEMPERATURE AND PRECIPITATION DATA FOR  
APRIL DURING THE PAST SIXTEEN YEARS.

Year.	Temperature			Average Precipitation. Inches and 100ths.
	Mean.	Highest.	Lowest.	
1889	53.5	100	16	0.45
1890	49.0	96	8	0.72
1891	48.3	88	5	1.51
1892	44.9	84	6	0.62
1893	41.8	78	0	1.14
1894	47.6	90	10	0.59
1895	48.2	95	1	0.42
1896	41.7	89	0	1.00
1897	47.3	91	9	0.37
1898	51.1	103	12	0.71
1899	47.9	87	12	0.37
1900	43.8	82	10	1.98
1901	45.3	98	-2	0.59
1902	45.8	84	14	0.75
1903	45.2	101	1	0.47
1904	45.4	97	10	0.66

## WEATHER AND CROPS.

*For week ending April 18, 1904*—The weather during the past winter was moderately mild and quite favorable to stock interests. Stock of all kinds wintered well and with much less feeding than usual. The precipitation during February and March was above normal in northern and western sections, with a marked deficiency throughout the eastern, central and southern districts. April to date has been warm and pleasant, with the exception of a few days the latter part of the past week, when the temperature fell to freezing, and killing frost occurred in several localities, doing considerable damage to early fruit in bloom in the western and south-western sections. Plowing and seeding are well advanced in the earlier sections, and in some localities seeding has been completed. Over the greater part of the State the soil is in excellent condition for putting in crops; in the lower half of the State the conditions are not so favorable on account of the general absence of storms during the winter months. Range grass has started nicely and feed for stock is fairly



good in most sections. Alfalfa is growing rapidly, and the meadows are reported in excellent condition. Fruit trees are blooming in the southern and western sections; in the southeastern portion they are in bud and much advanced for this time of the year.

*For week ending April 25, 1904*—Unseasonably cold weather prevailed over the State during the week ending Monday, April 25th, the daily mean temperatures ranging from 6 to 10 degrees below normal. The precipitation was moderately light and generally in the form of snow in the northern portion. Freezing temperatures were of nightly occurrence over the greater part of the State, causing some damage to alfalfa, early garden vegetables and fruit trees that were well advanced. Spring seeding is nearly finished, except in the northeastern section, where the work has been retarded by unfavorable weather and soil conditions. Range feed is reported to be much better than usual at this time of year, and stock of all kinds are doing well. In the southeastern section grain is heading, fruit trees are in full bloom, and all crops are in excellent condition and growing nicely.

#### CLIMATOLOGY OF HAWTHORNE, NEVADA.

Hawthorne is situated in the northwestern part of Esmeralda County, about five miles from the lower end of Walker Lake Basin, in latitude  $38^{\circ} 30'$ , longitude  $118^{\circ} 40'$ , elevation 4,569 feet.

Mountain ranges surround the town on three sides, the lake opening on the north. The western mountains are the highest, Mount Grant being over 12,000 feet.

Mean annual temperature, 54 degrees. The warmest month was July, 1889, with a mean temperature of 79 degrees. The coldest month was January, 1898, with a mean temperature of 26 degrees. The highest temperature recorded in the past sixteen years was 102 degrees, on July 6, 1889, and on August 6, 1895. The lowest temperature recorded during the past sixteen years was 6 below zero, on January 7, 1890. The mean temperature of the winter months is 36; spring months, 52; summer months, 73; fall months, 54.

The mean annual precipitation is 3.59 inches. The wettest year was 1891, with 7.36 inches, and the driest, 1903, with 1.75 inches.

#### Mean Temperature.

Year	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1888	30.0	41.6	45.7	56.1	65.2	73.3	79.0	79.3	73.2	57.5	43.7	42.5
1889	33.6	39.3	50.4	57.2	63.9	73.9	77.4	76.6	63.8	54.9	45.5	42.3
1890	33.8	41.0	43.7	59.0	68.0	71.1	74.2	73.6	73.6	53.1	42.9	38.6
1891	32.4	37.4	43.8	52.0	58.4	64.8	74.1	75.3	64.4	55.7	46.4	32.5
1892	31.4	38.3	45.6	49.0	57.2	65.2	72.7	75.5	68.9	51.9	44.5	35.5
1893	35.0	35.8	41.9	46.8	55.6	66.8	73.4	74.0	61.1	51.8	41.4	38.0
1894	32.6	34.3	43.4	49.9	59.4	60.5	71.1	73.2	53.0	54.4	45.4	33.2
1895	32.4	36.8	41.8	50.3	58.4	64.8	72.2	73.5	62.2	53.2	40.8	35.0
1896	40.2	40.8	43.6	45.4	53.0	71.6	75.2	72.9	64.0	55.4	43.0	41.0
1897	36.2	34.9	37.9	52.8	64.0	66.0	73.0	75.8	64.3	54.4	46.6	35.1
1898	26.3	42.6	39.3	56.3	56.4	68.0	76.6	76.6	66.7	52.6	41.2	31.8
1899	35.8	38.4	44.8	51.8	52.4	60.6	75.6	68.2	65.8	50.2	46.5	35.2
1900	39.6	41.3	49.0	46.7	59.4	73.4	74.8	69.6	60.0	52.7	45.0	36.1
1901	35.6	37.2	43.8	49.0	59.2	66.6	77.8	74.4	64.3	56.2	47.4	36.6
1902		41.8	50.4	56.6	69.4	72.6	72.2	66.4	55.5	41.9	36.8	
1903	36.4	27.7	43.6	46.9	57.1	67.6	71.4	73.4	63.8	54.4	46.4	32.3
Means	34.1	38.0	43.7	51.2	59.0	67.7	74.6	74.0	64.7	53.8	44.3	36.4

#### Maximum Temperature.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1888		64	70	84								62
1889					93	97	102	100	92	88	67	
1890	52	66	68							79	69	64
1891	62	62	70	81	85	92	97	98	95	76	73	64
1892	46	65	69	75	88	96	98	98	90	84	67	57
1893	55	58	78	71	85	90	98	95	90	79	67	69
1894	63	59	71	84	87	88	97	92	90	78	69	55
1895	59	63	72	80	87	95	98	102	92	82	67	64
1896	58	66	76	71	88	95	100	94	88	83	68	64
1897	56	59	67	81	91	93	97	97	88	76	74	65
1898	56	66	66	88	82	95	101	100	92	80	76	65
1899	62	65	75	83	84	95	99	89	93	78	71	65
1900	61	64	75	76	84	100	100	95	86	72	78	64
1901	60	68	70	72	83	96	101	100	92	78	71	67
1902			63	76	85	98	98	99	93	80	68	68
1903	65	58	70	78	90	97	95	100	97	82	75	60

#### Minimum Temperature.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1888		18	21	29								26
1889					36	48	55	51	38	29	23	
1890	-6	6	18							28	25	21
1891	12	7	21	19	21	43	26	46	30	30	22	0
1892	16	11	21	23	31	38	50	55	45	24	16	11
1893	18	12	8	16	30	43	50	50	37	27	17	16
1894	-5	6	17	26	29	32	51	49	31	25	15	12
1895	3	16	9	20	28	32	45	39	28	30	15	11
1896	20	20	18	18	22	46	48	52	39	30	16	20
1897	14	9	18	29	34	40	47	50	40	36	19	12
1898	-4	20	13	27	34	41	51	51	42	30	15	8
1899	7	2	19	27	27	43	53	45	41	21	18	12
1900	20	17	20	25	33	42	49	48	34	29	22	3
1901	17	10	14	20	35	40	51	52	38	32	26	6
1902			20	24	31	35	45	50	30	30	19	15
1903	10	5	17	19	31	45	45	47	36	29	20	12

#### Total Precipitation.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1888	2.38	0.26	0.30	0.20	1.20	0.20	0.00	T	0.00	0.00	0.87	0.35
1889	0.10	0.67	0.00	0.15	T	0.00	0.00	0.00	0.82	0.60	0.00	1.03
1890	2.22	0.67	1.10	0.07	0.00	0.17	0.00	T	1.03	0.12	0.00	0.40
1891	0.21	1.02	0.25	1.19	1.09	0.15	0.08	0.95	0.89	T	0.00	1.53
1892	0.14	0.31	1.04	0.10	0.40	0.43	T	0.03	0.19	0.52	0.44	1.02
1893	0.66	0.58	0.16	0.17	0.00	0.00	0.04	0.97	0.33	0.01	0.08	T
1894	0.57	0.42	0.52	0.08	0.14	1.24	0.86	0.33	0.00	0.00	0.00	0.44
1895	0.61	0.20	0.12	0.15	0.41	0.28	0.00	0.06	0.00	0.21	0.98	0.20
1896	0.67	0.41	0.35	0.23	0.42	0.35	0.22	0.54	0.21	0.22	0.45	0.57
1897	0.17	1.00	0.59	0.10	0.23	0.04	0.80	0.10	0.02	1.22	0.13	0.30
1898	0.30	0.06	0.39	T	0.95	0.00	0.20	T	0.64	0.01	0.09	0.26
1899	0.39	T	0.10	0.20	0.09	0.10	0.02	0.22	0.00	0.09	0.09	0.56
1900	0.10	0.10	0.08	1.05	0.39	0.00	0.00	0.00	0.22	0.00	0.12	0.00
1901	0.58	0.45	0.05	0.52	0.39	0.00	0.10	0.00	0.00	0.00	0.31	0.20
1902			0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00
1903	1.10	0.35	T	0.10	0.00	0.00	0.00	0.00	0.00	0.20	T	T
Means	0.54	0.45	0.29	0.30	0.34	0.26	0.13	0.12	0.23	0.16	0.33	0.44



## CLIMATOLOGICAL DATA FOR APRIL, 1904.

Stations.	Counties.	Elevation (feet)	Length of record years	Temperature (degrees Fahrenheit)							Precipitation (inches)					Sky					Observers
				Mean	Departure from the normal	Highest.	Date.	Lowest	Date	Greatest daily range	Total.	Departure from the normal	Greatest in 24 hours	Total snowfall unmelted	Number rainy days	Number clear days	Number partly cloudy days	Number rainy days	Prevailing direction of wind		
Northern Section.																					
Battle Mountain-1	Lander	4,511	34	51.9	+2.1	93	14	25	20	53	0.50	-0.31	0.10	0.0	2	8	4	18		Agent So. Pacific Co.	
Beowawe-3	Eureka	4,695	34	47.6	-0.5	76	12	24	1		0.30	0.34	0.10		3					Agent So. Pacific Co.	
Carlin-3	Elko	4,897	34	45.7	0.4	82	13	28	20		1.04	0.44	0.70	2.0	3	9	0	21		Agent So. Pacific Co.	
Crane's Ranch†	Elko	5,350	17								1.95	+0.78	0.50		9	14	4	12	W	W. T. Crane	
Elko-1	Elko	5,063	34	44.2	0.5	71	12	25	24	36	1.20	+0.64	0.25	4.0	9	11	10	9	NE	C. H. Sproule	
Penelon	Elko	6,128	17	41.8	-5.7	85	11	20	1							16	0	11	W	Agent So. Pacific Co.	
Golconda-3	Humboldt	4,392	26																	Agent So. Pacific Co.	
Halleck-3	Elko	5,229	32	49.8	+3.4	84	13	24	1		1.47	+0.86	0.68	6.0	4	11	11	8	SW	Agent So. Pacific Co.	
Humboldt-1	Humboldt	4,236	33	48.0	2.3	75	10	22	22	41	0.85	+0.18	0.40	2.5	6	18	1	11	S	Agent So. Pacific Co.	
Lee	Elko		6																	Miss Jennie Williams	
Lovelock-1	Humboldt	3,977	13	50.4	-2.4	88	11	20	23	49	T	-0.06	T	T	0	16	8	6		Agent So. Pacific Co.	
Mill City-3	Humboldt	4,225	16	53.6	+1.3	84	12	28	1		0.05	-0.49	0.05		1	22	0	8		Agent So. Pacific Co.	
Palisade-1	Eureka	4,821	23	13.8	-4.1	82	13	18	2	56	0.82	+0.11	0.20		5	23	0	7	NW	Agent So. Pacific Co.	
Quinn River Ranch* -1	Humboldt	4,850	3	48.2		84	12	22	1	58	0.41		0.18		6	17	4	9	W	F. M. Payne	
Tecoma-1	Elko	4,812	27	46.6	2.2	78	13	20	1	43	1.85	+1.23	0.90	7.0	5	18	7	5	N	Agent So. Pacific Co.	
Toano-3	Elko	5,975	35	47.2	+2.6	90	13	20	24		1.22	+0.43	0.80	10.0	2	17	8	5	SW	Agent So. Pacific Co.	
Wells-3	Elko	5,623	33	43.3	-6.2	69	12	28	23		0.39	-0.24	0.15	3.0	3	14	0	16		Agent So. Pacific Co.	
Winemucca-1	Humboldt	4,432	26	47.0	-0.3	80	12	23	23	39	0.24	-0.72	0.09	T	6	16	3	11	SW	U. S. Weather Bureau	
Wood-1	Elko	6,000	5	45.2		80	12	19	1	45	1.35		0.64		6	12	13	5	W	A. H. Wiseman	
Eastern Section.				47.3	0.9						0.83	+0.08		3.4	1	15	5	10	SW		
Ely-1	White Pine	6,000	17	43.1	+0.1	76	12	13	23	52	0.81	0.67	0.36		4	17	7	6	N	D. S. Dickerson	
Hamilton-1	White Pine	7,977	4	38.0		70	12	10	19	52	0.56		0.20	5.6	4	13	8	9	S	Mrs. J. F. Beck	
Central Section.				40.6	+0.1						0.68	-0.67			4	15	8	7			
Austin-1	Lander	6,594	16	48.1	+3.9	72	12	19	23	36	1.98	+0.70	0.46		9	17	1	12		H. W. Dyer	
Eureka-1	Eureka	6,990	2	43.2		75	16	10	1	60	0.59		0.26	5.0	4	21	6	3	N	Geo. L. Broy	
Potts-1	Nye	6,826	12	40.2	-6.0	77	12	10	1	52	0.72	-0.12	0.40	8.5	4	12	9	9	N	Miss Bessie Potts	
Western Section.				43.8	1.0						1.10	+0.29		6.8	6	17	5	8	N		
Carson City-2	Ormsby	4,660	25	46.0	-2.0	80	11	22	24	46	0.31	-0.56	0.29	0.2	2	16	10	4	SW	C. W. Friend	
Carson City (W. B.)-1	Ormsby	4,720	15	45.7	-2.3	79	12	23	24	43	0.20	-0.67	0.20	0.1	2	13	10	7	SW	U. S. Weather Bureau	
Fallon-1	Churchill		1	49.4		83	11	20	25	56	T		T	0.0	0					Mrs. Ida Dolf	
Glenbrook	Douglas	6,282									0.91		0.70		3	11	0	19	SW	D. Couillard	
Lewers' Ranch‡-1	Washoe	5,200	17	47.6	+0.7	81	11	21	23	42	0.82	-0.37	0.70	4.0	3	18	9	3	SW	Mrs. Ross Lewers	
Martin's Ranch‡-1	Douglas	4,830	6	51.8		97	11	20	1	64	0.37		0.37		1	18	7	5	SW	Mrs. J. H. Martin	
Reno-1	Washoe	4,484	34	46.2	-0.2	78	11	22	23	41	0.35	-0.06	0.35	T	1	15	6	9	E	S. B. Doten	
Wabuska-1	Lyon	4,347	2	47.2		84	12	11	22	50	0.12		0.12	0.0	1	11	9	10	SW	J. H. Harcourt	
Wadsworth-1	Washoe	4,077	33	55.1	+2.4	83	13	21	2		0.00	-0.35	0.00	0.0	0	27	1	2	E	Agent So. Pacific Co.	
Southern Section.				48.7	-0.4						0.34	-0.40		0.6	1	16	7	7	SW		
Belmont-1	Nye	8,132	13	42.2	-0.2	71	11	11	26	30	0.49	-0.31	0.20		5	8	8	14	SW	W. N. Granger	
aCandelaria-1	Esmeralda	5,783	15	48.1	-1.5	78	12	19	20	38	0.15	-0.34	0.15	1.5	1	14	8	7	N	Bradford Dean	
cGeyser-1	Lincoln			42.9		78	11	10	24	49	0.07		0.07	0.5	1	12	11	4	N	A. D. Campbell	
Hawthorne-1.	Esmeralda	4,569	17	49.0	-2.2	88	11	21	23	53	0.05	-0.25	0.05	0.0	1	9	7	14	N	T. G. Watterson	
McAfee's Ranch-1	Esmeralda	4,835	1	47.2		81	12	11	24	53	0.38		0.31		3	17	6	7	S	G. A. McAfee	
Morey-1	Nye	7,384	1	45.2		81	11	14	21	45	0.60		0.35	7.0	3	9	18	3	S	Jas. B. Gilmore	
Palmetto-1.	Esmeralda	6,500	15	43.6	+0.1	76	11	14	20	47	1.15	+0.29	0.40	5.0	4	19	7	4	W	Wm. Oothout, Jr.	
Pioche-1	Lincoln	6,100		47.6		81	11	17	21	49	0.14		0.14	T	1	9	17	4	S	A. A. Carman	
Sodaville-1.	Esmeralda	4,665	6	53.3		91	14	22	22	52	0.20		0.20	2.0	1	16	7	7	SW	Agent So. Pacific Co.	
				46.6	1.0						0.36	-0.15		2.3	2	13	10	7	S		
State Means				45.4	-0.6						0.66	-0.16		3.7	3	15	7	8	SW		
Miscellaneous.																					
Modena (Utah)-1	Iron	5,470	4	46.0		77	12	23	8	44	0.02		0.02	0.3	1	17	12	1	SW	U. S. Weather Bureau	
Independence (Cal.)-1	Inyo	3,721	8	56.3		81	12	31	20	31	T		T	0.0	0	13	9	8	NW	U. S. Weather Bureau	
Tamarack (Cal.)											4.36		2.17	59.0	9	21	1	8		William Bennett	
Donner (Cal.)	Nevada	6,095									2.02		0.90	20.5	10	16	10	4	W	F. R. Williams	
Independence Lake (Cal.)	Sierra										2.52		1.40	18.0	12	7	16	7	S	C. J. Gepper	
Tahoe (Cal.)	Placer	6,252									1.41		0.63		8					J. U. Haley	
Lundy (Cal.)	Mono										0.08		0.08	2.0	2					Al. Taylor	
Bridgeport (Cal.)	Mono	6,423									0.24		0.24	1.0	1	14	8	8		Geo. A. Montrose	

REFERENCES: 1. Weather Bureau maximum and minimum thermometers in use; 2. self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3. means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed before the name of a station, or against the data in the body of the form, indicates the number of days missing from the record; for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

\* Not considered in computing State or district means.

† Postoffice—Elko. ‡ Postoffice—Franktown. § Postoffice—Gardnerville. ¶ Postoffice—Amos.

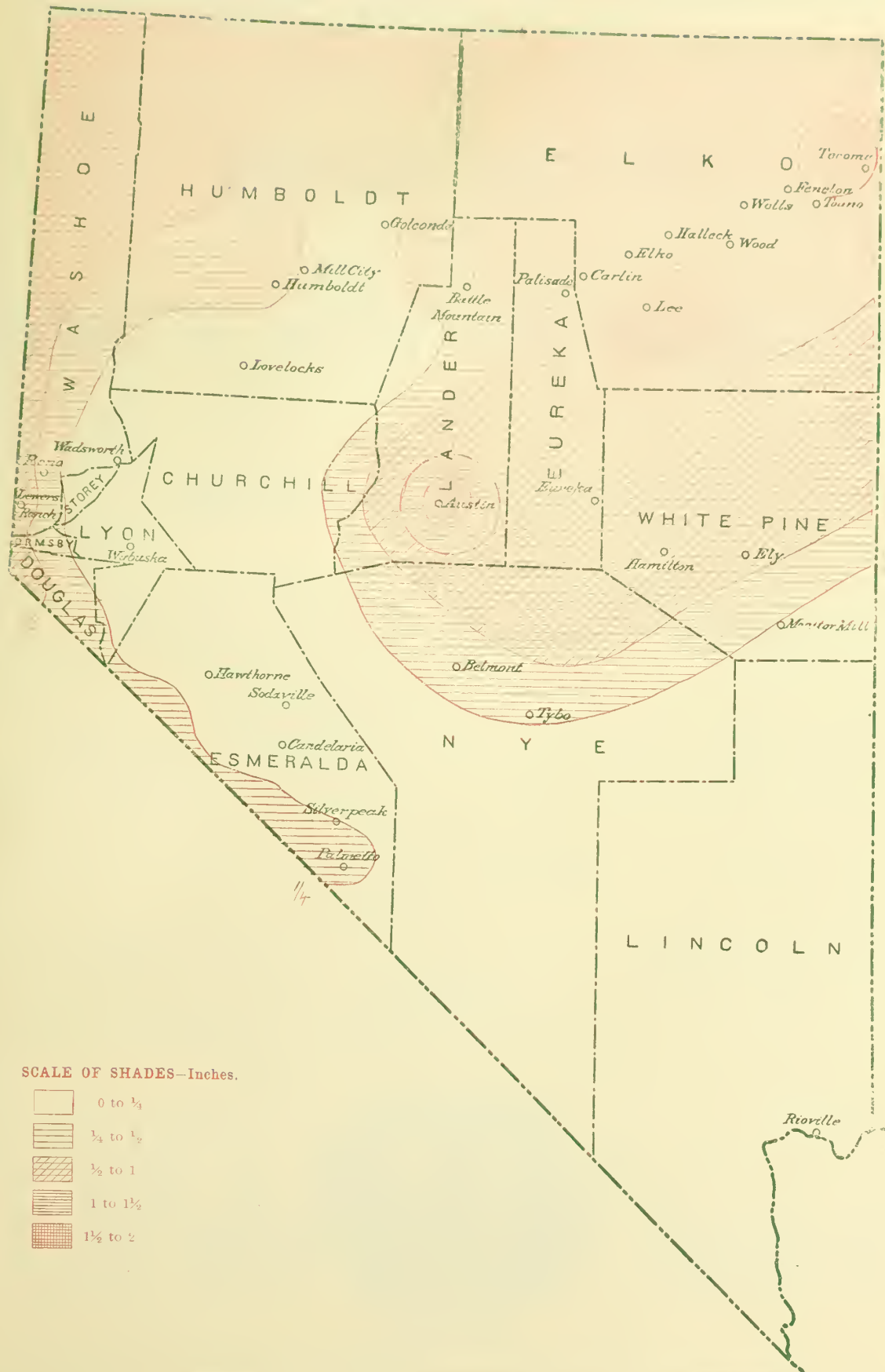


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\*Extremes of temperature from readings of ordinary thermometer at 7 a.m. and 2 p.m.



TOTAL PRECIPITATION FOR APRIL, 1904.





## DAILY PRECIPITATION FOR APRIL, 1904.

Stations.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Northern Section.																																	
Battle Mountain				.10															.10	.40		.10				.10						0.50	
Beowawe														.01	.50				.30	.30	.20	.12	.22	.37			.10		.70		0.30		
Carlin				.20										.05				.12	.10	.10	.15	.15	.20			.05	T				1.01		
Crane's Ranch			T	.25										*	.08			.20		T	*	*	.55					T				1.95	
Elko																															1.20		
Gokunda			.04											.40												.02			T			1.47	
Halleck			.02																									.03	T			0.85	
Humboldt																																T	
Lee			T															.05				T										0.05	
Lovelock																	.14	.14		.02	.20	.02						.12	.10			0.82	
Mill City			*	.26										.08	*				.05					.70								0.41	
Palisade			.18	.04												.15				.02			.80							.90		1.85	
Quinn River Ranch			.05													.42																1.22	
Tecoma														*	.10		*		.14			.05	.06	.15								0.39	
Toano			T											T					.09	.13			.25	.19			T					0.24	
Wells			T	.01											.61				.07													1.35	
Winnemucca																																	
Wood			.10																														
Eastern Section.																																	
Ely														.09				.02	.34													0.81	
Hamilton														.20				.16	.10											.10		0.56	
Central Section.																																	
Austin				.11										.40					.46	.29	.04	.39										1.98	
Eureka															.03				T	T	.10	.10						.17	.09			0.59	
Potts			T												.02					.40							.20	T				0.72	
Western Section.																																	
Carson City			T															T	.29	.02		T	T									0.31	
Carson City (W. B.)																		.19	.01			T										0.20	
Fallon																																T	
Glenbrook															.15				.70	.10	T									.06		0.91	
Lewers' Ranch			T													T			.37													0.82	
Martin's Ranch																			.35	T		T										0.37	
Reno			T												.12																	0.35	
Wabuska																																0.12	
Wadsworth																																0.00	
Southern Section.																																	
Belmont																		.20	.14	.01	T	T						.04	.10			0.49	
Candelaria																		T	T	T							T					0.15	
Geyser																																0.07	
Hawthorne																			*	.07			T				.05					0.05	
McAfee's Ranch																			T	.35	.10	T					.31					0.38	
Morey																			T	.30		T							T			0.60	
Palmetto																		.40	.25	.30	T						.30	T				1.15	
Pioche																																0.14	
Sodaville																			T								.20					0.20	
Miscellaneous.																																	
Modena (Utah)																																	
Independence (Cal.)	T	T	*											.62	T	.05			T	T	T			.02								T	
Tamarack (Cal.)				.41											.22		.17	.21	.22	.13	.08						.15	.71				4.36	
Donner (Cal.)				.04										*	.22	.14	*	.55	.30	T	.15	.03					*	.02	.06			2.02	
Independence Lake (Cal.)			T	.17										*	.22		*	.140	.21	*	.15	T					*	.15	.08			2.52	
Tahoe (Cal.)														*	.15	.01	*	.63	.40	.01	.14	T					T	*	.07			1.41	
Lundy (Cal.)			T																										T				0.08
Bridgeport (Cal.)																																	
Glen Alpine (Cal.)																		.24															0.24

T indicates trace. \* Precipitation included in that of following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, -  - ANDREW MAUTE, SUPT.

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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR MAY, 1904.

NEVADA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU

IN COÖPERATION WITH THE

NEVADA STATE WEATHER SERVICE

(CHARLES W. FRIEND, Director.)

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

WILLIS L. MOORE,

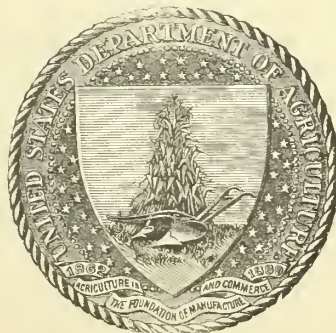
CHIEF OF WEATHER BUREAU,

BY

J. H. SMITH,

SECTION DIRECTOR,

CARSON CITY, NEVADA.

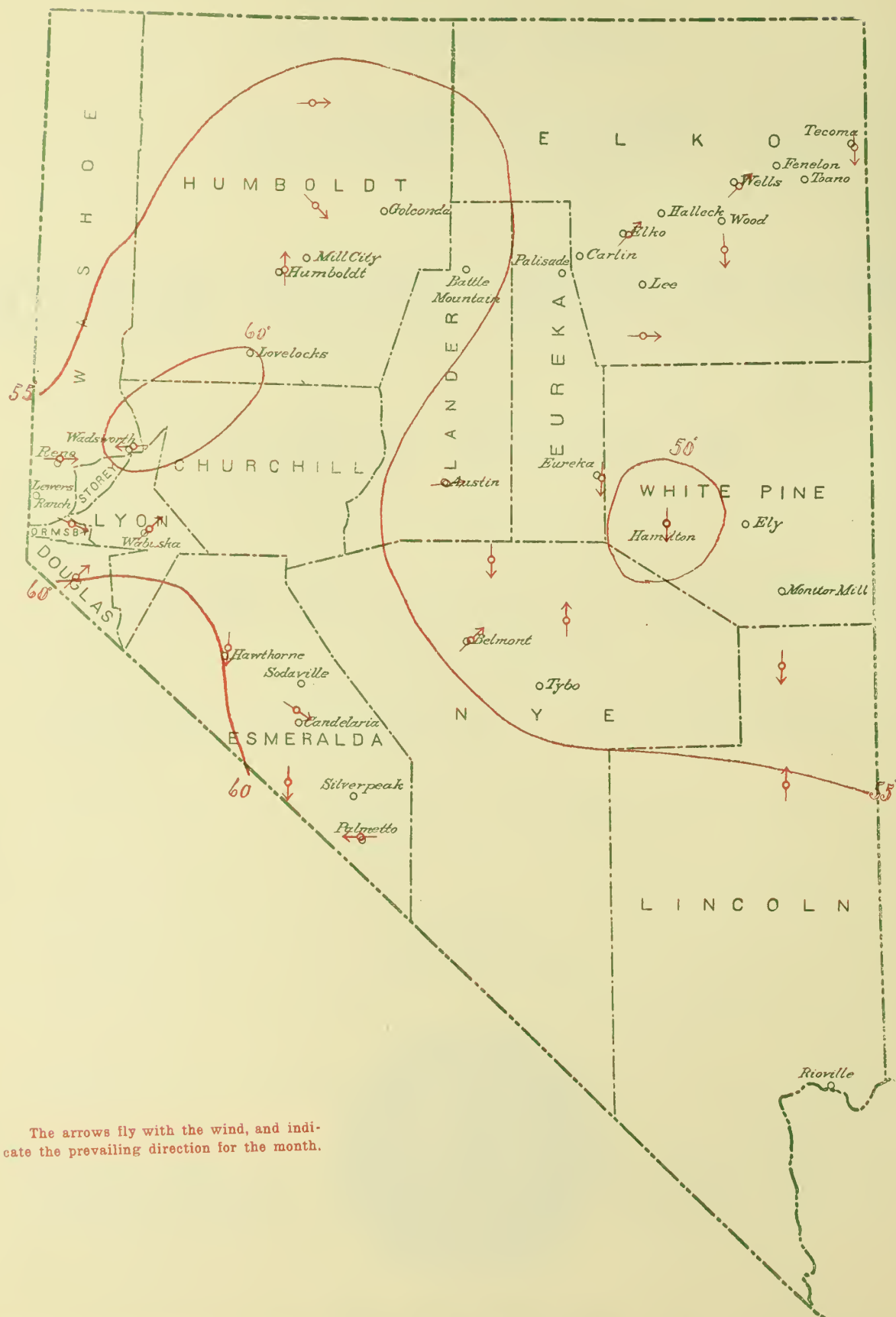


CARSON CITY, NEV.:  
WEATHER BUREAU OFFICE.

June 29, 1904



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR MAY, 1904.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## NEVADA SECTION.

J. H. SMITH Section Director,  
CARSON CITY, NEVADA.

VOL. XVIII

CARSON CITY, NEVADA

No. 5.

## CLIMATOLOGY OF THE MONTH.

The mean atmospheric pressure for the State, reduced to sea level, as determined from the records of the United States Weather Bureau stations at Carson City and Winnemucca (Nevada), Modena (Utah), and Independence (California), was 29.84 inches.

The highest pressure, 30.22 inches, was recorded at Winnemucca, on the 8th, and the lowest, 29.38 inches, at Modena, on the 1st and 18th.

The absolute range of pressure for the State was 0.84 of an inch.

## Temperature—Degrees Fahrenheit.

The mean temperature for the State was 54.0, which is about 1.2 above normal, and only 0.1 lower than the mean for the corresponding month of 1903.

By sections, the means were: Northern, 53.4; eastern, 50.0; central, 51.4; western, 58.3; southern, 56.9.

The highest monthly mean, 66.6, was recorded at Wads-worth, Washoe County.

The lowest monthly mean, 46.8, was recorded at Hamilton, White Pine County.

The highest temperature, 98, was recorded at Martin's Ranch, Douglas County, on the 23d.

The lowest temperature, 10, was recorded at Eureka, Eureka County, on the 23d.

The greatest local daily range of temperature, 59, was recorded at Martin's Ranch, on the 9th.

## Precipitation—Inches and Hundredths.

The average precipitation for the State was 0.84 of an inch, which is 0.16 of an inch below normal, and 0.15 of an inch above the average for the corresponding month of 1903.

By sections, the averages were as follows: Northern, 1.03 inches; eastern, 1.26 inches; central, 0.99 of an inch; western, 0.12 of an inch; southern, 0.80 of an inch.

The greatest monthly amount, 3.02 inches, was recorded at Wood, Elko County, and the least, none, at a few stations.

The greatest amount recorded in any twenty-four consecutive hours was 1.43 inches, at Wood, on the 20th.

## Relative Humidity.

Carson City—8 a. m., 68 per cent; 8 p. m., 34 per cent; monthly mean, 51 per cent.

Winnemucca—8 a. m., 66 per cent; 8 p. m., 31 per cent; monthly mean, 49 per cent.

Modena (Utah)—8 a. m., 60 per cent; 8 p. m., 29 per cent; monthly mean, 41 per cent.

## Wind and Weather.

The prevailing direction of the wind was from the north

The total movement of the wind at Carson City was 5,577 miles; Winnemucca 7,078 miles; Modena (Utah), 8,257 miles; Independence (California), 8,315 miles.

The maximum velocity at Carson City was 36 miles per hour, from the southwest, on the 24th; Winnemucca, 42 miles per hour, from the northwest, on the 18th; Modena, 53 miles per hour, from the southwest, on the 18th, and 48 miles per hour, from the northwest, at Independence, on the 1st.

The average number of clear days was 18; partly cloudy, 6; cloudy, 7; days with .01 or more of precipitation, 3.

COMPARATIVE TEMPERATURE AND PRECIPITATION DATA FOR  
MAY DURING THE PAST SIXTEEN YEARS.

Year.	Temperature			Average Precipitation, Inches and 100ths.
	Mean.	Highest.	Lowest.	
1889	57.8	106	20	1.44
1890	59.9	105	23	1.05
1891	54.7	95	21	2.43
1892	53.8	100	13	1.17
1893	52.6	98	18	0.41
1894	56.3	95	25	0.80
1895	56.1	105	18	0.55
1896	48.2	108	5	2.03
1897	60.0	99	12	0.59
1898	51.8	93	20	1.84
1899	49.7	96	10	0.68
1900	56.6	101	20	0.77
1901	56.2	94	19	0.86
1902	53.7	102	16	0.37
1903	54.1	106	15	0.70
1904	54.0	98	10	0.84

## MISCELLANEOUS PHENOMENA.

(Stations and Dates of Occurrence.)

*Solar Halos*—Carson City, 13th.

*Lunar Halos*—Wood, 11th; Carson City, 28th.

*Hail*—Wood, 20th; Palmetto, 25th; Potts, 25th, 26th; Hamilton, 2d, 25th, 26th, 27th.

*Killing Frost*—Carson City, 1st, 3d, 8th, 27th; Halleck, 3d, 4th; Palmetto, 1st, 8th; Wood, 8th, 11th, 15th; Potts, 1st, 2d, 3d, 4th, 5th, 8th, 9th; Winnemucca, 3d, 5th.

*Thunderstorms*—Austin, 24th, 26th; Fenelon, 13th, 14th; Geyser, 14th; Halleck, 13th, 19th, 21st; Hamilton, 25th; Lovelock, 24th; Morey, 13th, 23d; Palmetto, 22d, 24th; Potts, 24th; Reno, 24th; Wood, 20th, 21st.

## LATE REPORT.

TECOMA (Report received too late for entry in the tables): Mean temperature, 56.3; highest temperature, 90, on the 26th and 30th; minimum temperature, 21, on the 4th; total pre-



precipitation, 0.50 of an inch; greatest amount in 24 hours, 0.30 of an inch, on the 2d; number of days with .01 inch or more precipitation, 2; number of clear days, 18; partly cloudy, 5; cloudy, 8.

#### OBSERVERS' REMARKS.

RENO—Brisk shower of rain, accompanied by thunder and lightning, on morning of 24th. S. B. DOTEN.

EUREKA—The light rains during the month have had good effect on feed in the mountains. GEO. L. BROY.

GEYSER—The month has been cool and windy. Grain and grass are quite backward. A. D. CAMPBELL.

HALLECK—Opportune rains have made an abundance of range grass. The June rise in river began on the 25th, and at the end of the month the Humboldt was overflowing and inundating low lands. W. H. BRANDENBURG.

WOOD—It has been a remarkable month for the growth of grain and grass. Range better than for fourteen years; stock in fine condition. A. H. WISEMAN.

#### WEATHER AND CROPS.

*Week ending May 2, 1904*—The weather of the past week, like that of the preceding one, was unseasonably cold and very unfavorable to agricultural interests. Low temperatures, flurries of snow, killing frosts, and more than the usual amount of cloudiness characterized the weather throughout the greater part of the State during the past week. These conditions were unfavorable for germination and plant growth. The severe frosts during the week damaged garden truck considerably, and killed a great deal of the early blooming fruit in the western and southwestern portions of the State. The planting of potatoes and garden truck has been somewhat delayed by the cold weather. Apple trees are coming into bloom and some have been injured by frost. Pasturage is improving rapidly, and stock is picking up in flesh and looking remarkably well for this time of the year.

*Week ending May 9, 1904*—During the past week the temperature averaged about normal and the weather was fine and pleasant all over the State. Frost occurred on one or two mornings, but not heavy enough to do much damage. Cool nights caused alfalfa and garden truck to make slow growth. As a rule seeding is about finished, and in most of the early districts the grain is up and looking well. Garden making and potato planting are well under way in all districts. Pastures and meadows are reported to be in excellent condition and stock of all kinds are doing well and picking up in flesh rapidly. In the western part of the State rain is very much needed to improve the range grass, while in the eastern, northeastern and northwestern sections the feed is reported to be much better than usual. In the southern portion of the State the harvesting of alfalfa is in progress.

*Week ending May 16, 1904*—The weather conditions during the week were exceptionally favorable for crops of all kinds. Temperature averaged above normal and the weather was clear, warm and sunny. No frost was reported and there was a general absence of precipitation during the week. Seeding and planting is about finished in the northeastern section. The grain, hay and vegetable crops are reported to be in excellent condition and making rapid growth. Garden truck is doing well and the outlook for fruit, especially apples, is very promising. There has been considerable improvement in the condition of the ranges and stock of all kinds are doing remarkably well. Water is plentiful in all districts for irrigation and other purposes.

*Week ending May 23, 1904*—The weather of the past week was highly favorable to the growing crops in all parts of the State. Temperature averaged above normal. Light sprinkles of rain occurred in widely separated localities over the northern half of the State on the 19th and 20th. The middle portion of the week was somewhat cloudy and moderately cool, with cold north wind, but no frost is reported. All reports are very favorable and indicate that the growing crops in all parts of the State made rapid and satisfactory progress. In most localities wheat is up to a good stand, looking thrifty and growing nicely. Alfalfa made good growth and is from 12 to 14 inches high; in the southeastern portion it is being cut and stacked. Potato planting continues over the northern portion, but is nearing completion in the majority of districts. In the lower portion of Lincoln County the grain is beginning to ripen rapidly. The vegetable crops show considerable improvement in condition during the week. The prospects for fruit are about as previously reported. A light to fair yield of peaches, pears, plums and cherries is indicated over the southern and western sections, where the bloom and buds were seriously damaged by the severe frosts during the latter part of April; in other sections the prospects are more promising. The range feed is reported to be much improved, and stock are doing well.

*Week ending May 30, 1904*—The weather of the past week was somewhat changeable, but on the whole the conditions have been quite favorable to farming interests. In the western and northwestern sections the temperature averaged from 1 to 3 degrees per day below normal. Refreshing showers were quite general over the greater part of the State on the 24th and 25th, and considerable snow fell on the mountains during the night of the 25th. Light frost occurred in several districts on the morning of the 26th, but no damage of much consequence resulted. Although the week was a trifle too cool, yet crops of all kinds made very satisfactory progress. The grain crops are reported to be in fine condition and growing nicely, while the hay crop is unusually promising. Garden truck is doing well, and the fruit prospects are much better than expected, the frost having done less damage than was anticipated. The range feed is reported fine generally and cattle and horses are in very good condition.



## CLIMATOLOGICAL DATA FOR MAY, 1904.

		Temperature (degrees Fahrenheit)										Precipitation (inches)				Sky				Observations	
Stations	County	Elevation (feet)	Length of record (years)	Mean.	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from normal	Greatest in 24 hours	Total during month	Number of rainy days	Number clear days	Number overcast days	Number cloudy days	Prevailing wind		
Northern Section.																					
Battle Mountain—1	Lander	5,511	31					32	7		0.75	0.15	0.60		2	13	5	13		Agent So. Pacific Co. Agent So. Pacific Co. Agent So. Pacific Co. W. T. Crane C. H. Sprinkle	
Boowawe—3	Eureka	1,695	34	48.5		80	23	31	21		0.10	0.63	0.10	0.0	1	19	0	12			
Carlin—3	Elko	4,897	31																		
Crane's Ranch†	Elko	5,550	17								2.18	+0.16	0.65		5	12	11	5	w		
Elko—1	Elko	5,063	31	50.2	-1.3	76	25	27	7	39	1.55	+0.93	1.05	5.0	3	13	11	4	sw		
Fenelon	Elko	6,128	17	53.8	-2.0	80	17	37	2							16	0	15	w	Agent So. Pacific Co. Agent So. Pacific Co. Agent So. Pacific Co. Agent So. Pacific Co. Miss Jennie Williams	
Golconda—3	Humboldt	4,392	26																		
Hallock—3	Elko	5,229	32	52.2	-3.8	86	11	30	1		2.01	+1.03	0.67		5	18	6	7	w		
Humboldt—1	Humboldt	4,236	33	58.6	+0.4	84	22	33	1	13	0.22	-0.48	0.22	2.0	1	26	1	4	s		
Lee	Elko		6																		
Lovelock—1	Humboldt	3,977	13	59.6	-2.6	91	23	31	3	52	T	0.47	T	0.0	0	28	0	3		Agent So. Pacific Co. Agent So. Pacific Co. Agent So. Pacific Co. Agent So. Pacific Co. Agent So. Pacific Co.	
Mill City—3	Humboldt	4,225	16	52.6	-4.6	81	28	32	14		0.00	-0.98	0.00	0.0	0	23	0	8			
Palisade—1	Eureka	4,821	23	53.6	-3.8	85	10	20	8	18	0.70	+0.03	0.70	0.0	1	21	0	7			
Quinn River Ranch*—1	Humboldt	4,850	3	56.0		84	22	25	8	52	0.09		0.09		1	28	3	0	w		
Tecoma—1	Elko	4,812	27																		
Toano—3	Elko	5,975	35	52.2	-2.2	81	31	31	1		1.05	+0.09	0.80	0.0	4	15	13	3	sw	Agent So. Pacific Co. Agent So. Pacific Co. U. S. Weather Bureau A. H. Wiseman	
Wells—3	Elko	5,623	33	51.6	-3.6	79	23	32	3		1.53	+0.64	0.78		4	20	0	11	sw		
Winnemucca—1	Humboldt	4,432	26	55.7	+1.3	82	23	29	3	39	0.30	-0.66	0.20	T	2	19	4	8	nw		
Wood—1	Elko	6,000	5	52.2		80	17	24	8	47	3.02		1.43	0.0	9	10	15	6			
Eastern Section.																					
	Means			53.4	-2.5						1.03	0.02		0.5	3	18	5	8	sw		
Ely—1	White Pine	6,000	17	53.2	+2.5	84	17	26	7	45	2.23	+0.52	0.80		6	22	1	8		D. S. Dickerson Mrs. J. F. Beck	
Hamilton—1	White Pine	7,977	4	46.8		76	14	11	1	52	0.30		0.20	3.0	2	19	7	5	n		
Central Section.																					
	Means			50.0	+2.5						1.26	+0.52		1.5	4	20	4	7	n		
Austin—1	Lander	6,591	16	52.4	+1.1	76	23	h26	1	h49	1.21	0.47	0.91	8.0	5	17	0	14	w	H. W. Dyer Geo. L. Broy Miss Bessie Potts	
Eureka—1	Eureka	6,990	2	51.4		82	17	10	23	55	T		T	0.0	0	20	6	5	n		
Potts—1	Nye	6,826	12	50.4	-5.7	85	23	20	8	54	1.77	+0.05	1.00	5.5	5	4	14	13	n		
	Means			51.4	-2.3						0.99	-0.21			3	14	7	10	n		
Western Section.																					
Carson City—2	Ormsby	4,690	25	55.6	+1.4	85	22	28	8	49	0.10	-0.51	0.10	0.1	1	22	7	2	sw	C. W. Friend U. S. Weather Bureau Mrs. Ida Dolf D. Couillard Mrs. Ross Lewers	
Carson City (W. B.)—1	Ormsby	4,720	15	55.6	+1.4	82	23	28	1		0.10	-0.51	0.10	T	1	18	10	3	nw		
Fallon—1	Churchill		1	58.4		85	11	28	1	45	0.22		0.22	0.0	1						
Glenbrook	Douglas	6,282									0.10		0.10								
Lewers' Ranch‡—1	Washoe	5,200	17	57.2	+3.2	86	22	28	1	45	0.15	1.70	0.10	0.5	2	20	11	0	sw		
Martin's Ranch‡—1	Douglas	4,830	6	60.3		98	23	26	3	59	0.21		0.21	T	1	19	7	5	sw	Mrs. J. H. Martin S. B. Doten J. H. Harcourt Agent So. Pacific Co.	
Reno—1	Washoe	4,484	34	56.0	0.6	84	23	28	1	42	0.25	-0.28	0.21	0.0	2	23	4	4	e		
Wabuska—1	Lyon	4,347	2	59.6		88	24	26	8	51	0.00		0.0	0.0	0	19	4	8	sw		
Wadsworth—1	Washoe	4,077	33	66.6	+3.5	88	16	40	2	40	0.01	0.42	0.01	0.0	1	30	0	1	e		
	Means			58.3	+1.8						0.12	-0.68		T	1	22	6	3	sw		
Southern Section.																					
Belmont—1	Nye	8,132	13	53.0	-2.4	81	23	h27	1	40	0.23	-0.83	0.14	1.0	3				sw	W. N. Granger Bradford Dean A. D. Campbell T. G. Watterson G. A. McAfee	
Candelaria—1	Esmeralda	5,783	15	57.0	-0.1	84	17	34	5	45	0.17	-0.53	0.17	0.0	1	12	14	5	nw		
bGeyser—1	Lincoln			52.6		83	17	20	8	53	1.00		0.47	0.0	3	9	7	13	n		
Hawthorne—1	Esmeralda	4,569	17	60.4	+5.4	90	24	35	7	49	0.00	0.45	0.00	0.0	0	17	6	8	n		
McAfee's Ranch—1	Esmeralda	4,835	1	59.0		89	23	24	9	58	1.75		1.75		1	23	7	1	n		
Morey—1	Nye	7,384	1	51.8		89	16	23	1	53	1.50		0.52	4.0	5	5	22	4	s	Jas. B. Gilmore Wm. Oothout, Jr. A. A. Carman Agent So. Pacific Co.	
Palmetto—1	Esmeralda	6,500	15	51.2	+2.4	82	12	26	8	48	1.48	+0.09	0.85	3.0	4	18	8	5	e		
Pioche—1	Lincoln	6,100		55.8		87	12	24	4	56	1.17		0.83	0.0	3	15	5	11	s		
Sodaville—1	Esmeralda	4,665	6	64.9		95	24	30	1	46	T		T	0.0	0	15	9	7	nw		
	Means			56.9	+1.3						0.80	-0.43		0.9	2	14	10	7	n		
State Means				54.0	+1.2						0.84	-0.16			3	18	6	7	n		
Miscellaneous.																					
Modena (Utah)—1	Iron	5,470	4	56.4		82	17	31	9	44	1.55		0.54		10	14	11	6	w	U. S. Weather Bureau U. S. Weather Bureau William Bennett F. R. Williams C. J. Gepper J. C. Haley Al. Taylor Geo. A. Montrose	
Independence (Cal.)—1	Inyo	3,721	8	67.6		88	12	43	1	36	0.02		0.02	0.0	1	23	3	5	nw		
Tamarack (Cal.)											1.14		0.71	9.0	3	24	4	3			
Donner (Cal.)	Nevada	6,095									0.56		0.33	6.0	3	24	4	3	w		
Independence Lake (Cal.)	Sierra										0.96		0.53	11.0	3	7	20	4	sw		
Tahoe (Cal.)	Placer	6,252									0.51		0.35	3.5	2						
Lundy (Cal.)	Mono										0.80		0.60	8.0	2						
Bridgeport (Cal.)	Mono	6,423									0.22		0.22	1.0	1	17	9	5			

REFERENCES: 1, Weather Bureau maximum and minimum thermometers in use; 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed before the name of a station, or against the data in the body of the form, indicates the number of days missing from the record: for instance, "h" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

\* Not considered in computing State or district means.

† Postoffice—Elko. ‡ Postoffice—Franktown. § Postoffice—Gardnerville. ¶ Postoffice—Amos.



DAILY MAXIMUM AND MINIMUM TEMPERATURES FOR MAY, 1904.

Stations.	Day of Month.												Monthly Means.																					
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Anstsin	Max. 47	45	52	61	63	65	65	65	72	72	69	72	74	69	67	70	75	73	52	60	71	74	76	74	62	54	65	70	71	70	70	66.0		
Battle Mountain	Min. 26	28	28	31	34	41	37	34	42	43	40	44	49	46	47	41	46	46	46	48	50	41	41	50	50	44	42	38	43	44	43	44	40.1	
Belmont	Max. 32	34	38	40	42	46	46	46	52	52	50	52	54	50	49	48	47	46	45	45	44	42	41	41	42	44	48	50	52	52	52	52	66.4	
Candelaria	Min. 56	58	66	69	75	80	77	77	83	83	80	82	81	77	74	78	84	84	83	81	78	80	82	80	82	75	57	68	73	77	76	76	73.6	
Carson City	Max. 35	35	35	35	34	31	28	25	33	33	38	41	43	37	46	45	45	45	44	40	40	40	40	40	61	64	71	77	73	70	68	72.3		
Carson City (W. B.)	Min. 49	60	70	64	35	74	41	48	33	36	38	41	43	37	46	46	46	45	42	39	44	47	48	43	35	38	62	72	74	70	67	65	70.1	
Elko	Max. 28	46	54	61	61	61	61	61	68	63	65	68	66	62	66	66	66	66	69	61	60	62	66	74	67	67	72	82	86	82	73	74	67	61.1
Ely	Min. 30	34	29	31	34	34	34	34	36	36	35	37	39	37	37	37	37	37	32	34	34	39	36	31	32	49	62	75	74	68	75	74	70.3	
Eureka	Max. 57	59	61	66	66	68	68	68	72	72	75	79	82	76	69	78	82	82	82	72	68	68	68	68	68	81	81	82	80	80	80	80	80	68.1
Fallon	Min. 20	62	68	67	65	72	78	79	81	83	85	85	85	84	82	81	83	83	83	80	83	83	83	84	85	85	85	84	85	84	84	84	84	78.9
Geyser	Max. 64	80	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
Hamilton	Min. 28	30	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	
Humboldt	Max. 57	63	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	
Hawthorne	Min. 27	35	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	
Lewers' Ranch	Max. 49	65	72	69	75	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	
Lovelock	Min. 28	23	23	33	34	35	41	40	33	33	42	44	46	47	47	47	48	48	49	49	48	49	49	49	51	60	76	80	85	80	77	77	77.6	
Martin's Ranch	Max. 63	72	72	90	84	83	81	82	85	91	90	93	88	86	87	88	84	84	84	86	87	88	85	85	85	85	85	85	84	85	85	85	85	85
McAfee's Ranch	Min. 42	41	36	27	42	33	44	26	24	33	43	36	37	46	43	43	44	44	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
Morey	Max. 53	45	57	72	81	76	67	80	86	84	81	84	83	83	81	89	89	88	88	89	88	88	88	88	88	88	88	88	88	88	88	88	88	
Palmetto	Min. 23	25	29	34	37	40	38	74	74	74	78	80	82	81	75	80	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	
Palisade	Max. 42	56	64	70	76	76	74	74	74	74	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	
Pioche	Min. 28	32	35	40	43	50	40	68	81	86	84	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	
Potts	Max. 39	42	45	57	67	75	77	74	74	74	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	
Quinn River Ranch	Min. 33	28	31	30	27	35	40	24	74	83	85	86	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	
Reno	Max. 58	59	67	75	74	74	74	74	74	74	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	
Sodaville	Min. 28	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	
Tecoma	Max. 55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	
Wabaska	Min. 62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	
Wadsworth	Max. 32	39	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
Winnemucca	Min. 44	40	47	51	52	60	51	52	50	52	50	52	50	52	50	52	50	52	50	52	50	52	50	52	50	52	50	52	50	52	50	52	50	
Wood	Max. 48	57	67	66	68	70	63	66	72	79	71	75	79	75	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	
Miscellaneous.	Min. 32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	
Modena (Utah)	Max. 57	49	53	68	74	80	70	67	75	79	77	76	78	78	77	73	77	82	76	61	52	68	77	81	76	59	65	63	44	74	77	74	77	
Independence (Cal.)	Min. 37	32	40	34	39	39	46	36	31	37	46	38	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	
	Max. 59	68	76	79	81	85	78	76	73	83	87	88	87	85	85	85	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	
	Min. 43	46	51	50	55	58	56	49	52	56	61	62	62	62	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	

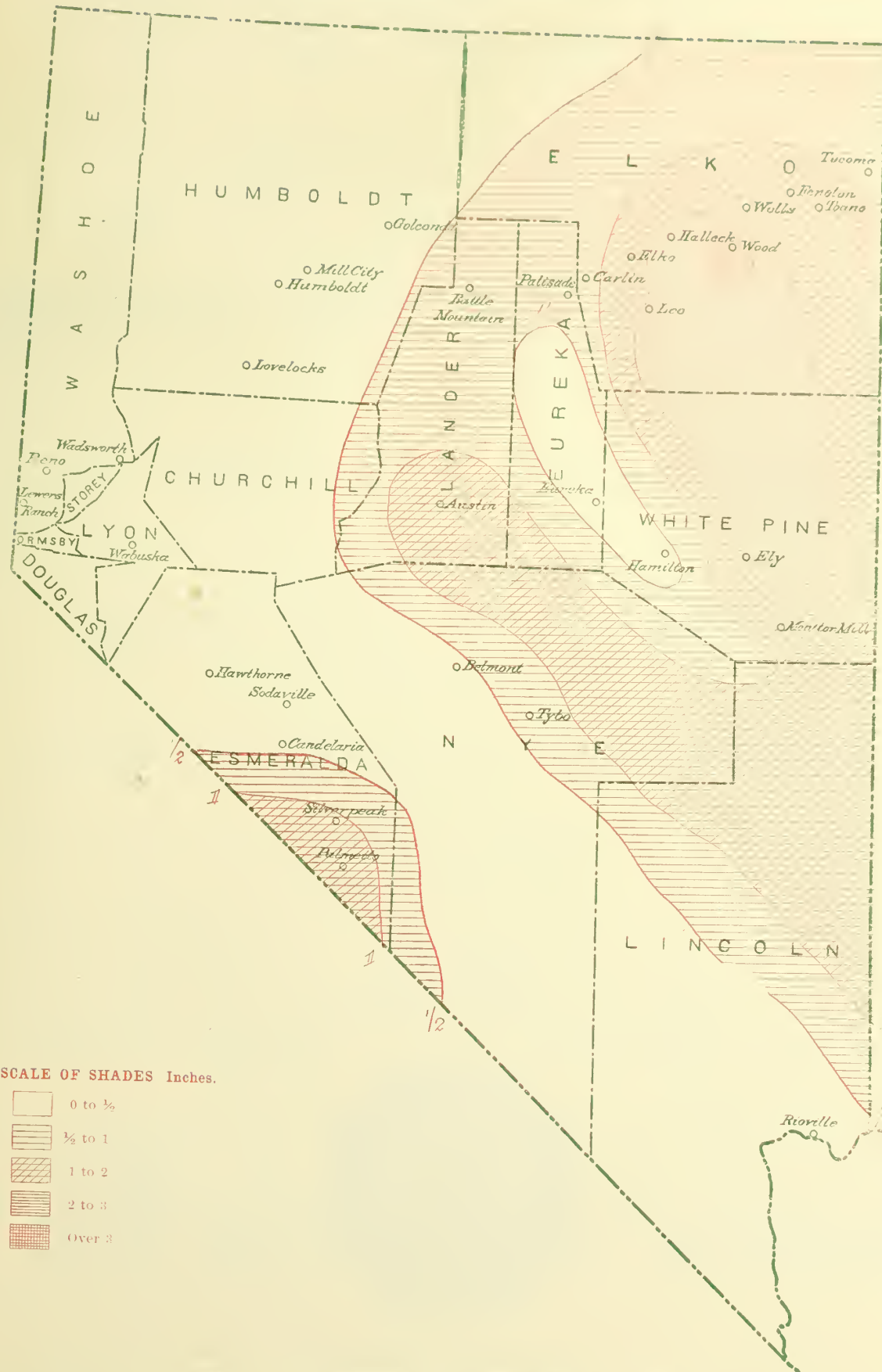
*Miscellaneous.*

Medano (Itab)

Independence (Cal.) .....



TOTAL PRECIPITATION FOR MAY, 1904.





## DAILY PRECIPITATION FOR MAY, 1904.

Stations.	Day of Month.																															Total		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
<i>Northern Section.</i>																																		
Battle Mountain	.60																			.15													0.75	
Beowawe																			.10														0.10	
Carlin	.65	.45																	.11	.53	.44												2.18	
Crane's Ranch	*	1.05																		.20	.30												1.55	
Elko	*																		*		.67												2.01	
Golconda	*	.50											.07																				0.22	
Halleck	.22																																	T
Humboldt																																		T
Lee																																		0.70
Lovelock																																		0.09
Mill City																																		
Palisade	.70		.09																															
Quinn River Ranch																																		
Tecoma	T	.08																		.80													1.05	
Toano	*	.75																	*		.78												1.53	
Wells	.10	T																	T	T													0.30	
Winnemucca	.39	.12		.02															.10	1.43	.49												3.02	
Wood																																		
<i>Eastern Section.</i>																																		
Ely	.06																	.40	.80	.27													2.23	
Hamilton		.20																															0.30	
<i>Central Section.</i>																																		
Austin	.91																			.07													1.21	
Eureka																				T													T	
Potts	.45																		.10	.20													1.77	
<i>Western Section.</i>																																		
Carson City	T																																0.10	
Carson City (W. B.)	T																																0.10	
Fallon																																	0.22	
Glenbrook																																	0.10	
Lewers' Ranch	.05																																0.15	
Martin's Ranch	T																																0.21	
Reno																																	0.25	
Wabuska																																	0.00	
Wadsworth																																	0.01	
<i>Southern Section.</i>																																		
Belmont	.04																																0.23	
Candelaria																																	0.17	
Geyser																			.33	.20												1.00		
Hawthorne																																	0.00	
McAfee's Ranch																																	1.75	
Morey	.30																		.35	.28													1.50	
Palmetto	T																		T	T													1.48	
Pioche	T																		.83	.23													1.17	
Sodaville																																		T
<i>Miscellaneous.</i>																																		
Modena (Utah)		.28	.05																															1.55
Independence (Cal.)																																	0.02	
Tamarack (Cal.)	.71																																1.14	
Donner (Cal.)	.33																																0.56	
Independence Lake (Cal.)	.36																																0.96	
Tahoe (Cal.)	.16																																0.51	
Lundy (Cal.)	.60																																0.80	
Bridgeport (Cal.)	.22																																0.22	
Glen Alpine (Cal.)	.56																																1.03	

T indicates trace. \* Precipitation included in that of following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, -  - ANDREW MAUTE, SUPT.

1904



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U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR JUNE, 1904.

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NEVADA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU

IN COÖPERATION WITH THE

NEVADA STATE WEATHER SERVICE

(CHARLES W. FRIEND, Director.)

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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UNDER DIRECTION OF

WILLIS L. MOORE,

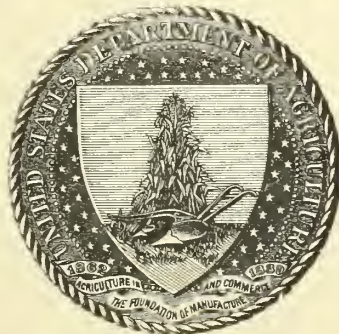
CHIEF OF WEATHER BUREAU,

BY

J. H. SMITH,

SECTION DIRECTOR,

CARSON CITY, NEVADA.

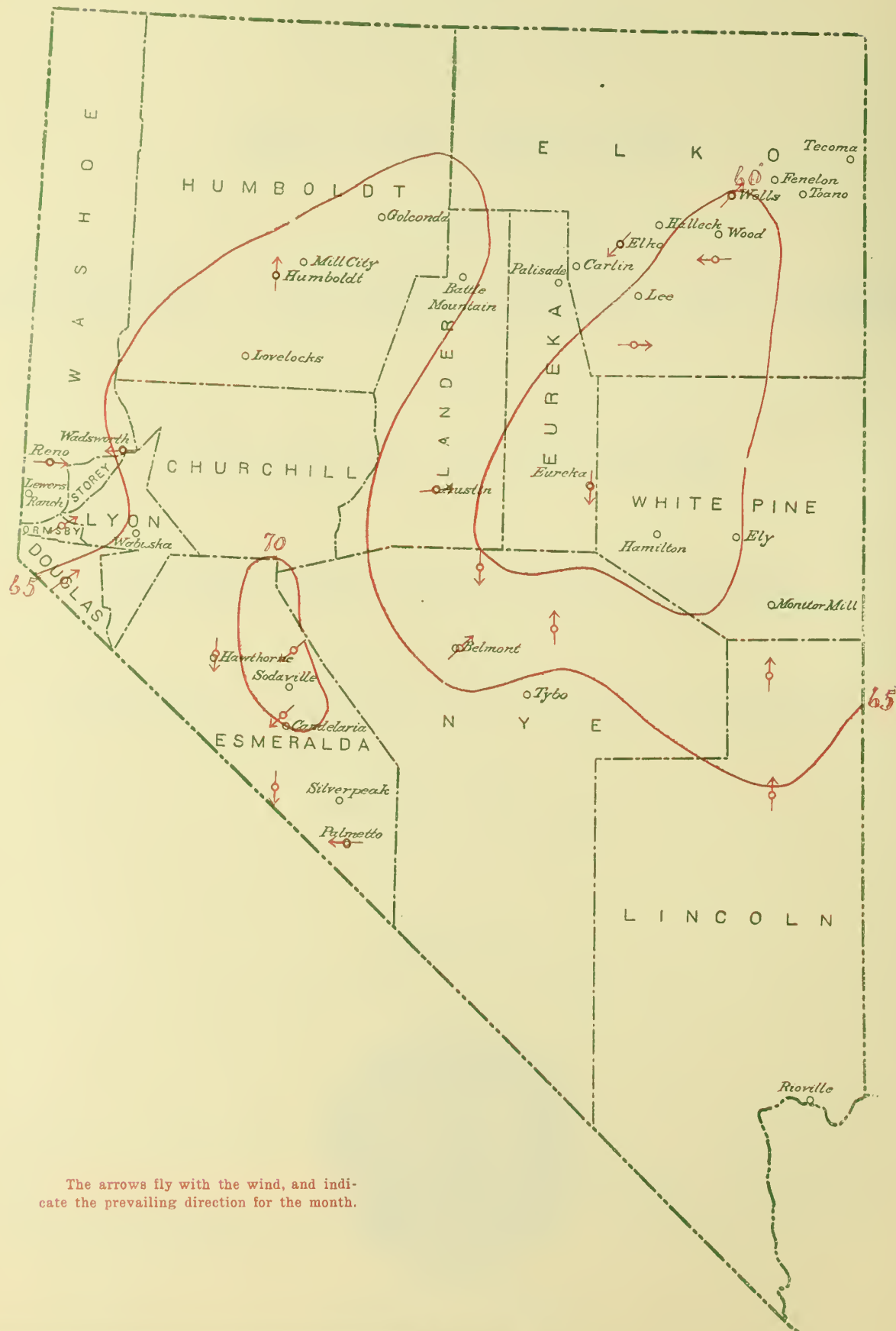


CARSON CITY, NEV.:  
WEATHER BUREAU OFFICE.

July 23, 1904



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR JUNE, 1904.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## NEVADA SECTION,

J. H. SMITH, Section Director,  
CARSON CITY, NEVADA.

VOL. XVIII

CARSON CITY, NEVADA.

No. 6.

## CLIMATOLOGY OF THE MONTH.

## Atmospheric Pressure—Inches and Hundredths.

The mean atmospheric pressure for the State, reduced to sea level, as determined from the records of the United States Weather Bureau stations at Carson City and Winnemucca (Nevada), Modena (Utah), and Independence (California), was 29.87 inches.

The highest pressure, 30.21 inches, was recorded at Winnemucca, on the 24th, and the lowest, 29.61 inches, at Independence, on the 20th.

The absolute range of pressure for the State was 0.60 of an inch.

## Temperature—Degrees Fahrenheit.

The mean temperature for the State was 63.6, which is 1 above normal, and 2.9 lower than the mean for the corresponding month of 1903.

By sections, the means were: Northern, 64.9; eastern, 60.4; central, 59.7; western, 63.9; southern, 65.9.

The highest monthly mean, 73.8, was recorded at Soda-ville, Esmeralda County.

The lowest monthly mean, 57.4, was recorded at Eureka, Eureka County.

The highest temperature, 106, was recorded at Martin's Ranch, Douglas County, on the 28th.

The lowest temperature, 11, was recorded at Eureka, Eureka County, on the 3d.

The greatest local daily range of temperature, 59, was recorded at Eureka, on the 24th.

## Precipitation—Inches and Hundredths.

The average precipitation for the State was 0.04 of an inch, which is 0.34 of an inch below normal, and 0.41 of an inch less than the average for the corresponding month of 1903.

By sections, the averages were as follows: Northern, 0.06 of an inch; eastern, 0.15 of an inch; central, 0.02 of an inch; western, 0.00 of an inch; southern, 0.04 of an inch.

The greatest monthly amount, 0.27 of an inch, was recorded at Hawthorne, Esmeralda County, and Wood, Elko County, and the least, none, at thirteen stations.

The greatest amount recorded in any twenty-four consecutive hours was 0.23 of an inch, at Wood, on the 1st.

## Relative Humidity.

Carson City—8 a. m., 59 per cent; 8 p. m., 26 per cent; monthly mean, 42 per cent.

Winnemucca—8 a. m., 53 per cent; 8 p. m., 24 per cent; monthly mean, 38 per cent.

Modena (Utah)—8 a. m., 43 per cent; 8 p. m., 15 per cent; monthly mean, 29 per cent.

## Wind and Weather.

The prevailing direction of the wind was from the southwest.

The total movement of the wind at Carson City was 5,018 miles; Winnemucca 6,997 miles; Modena (Utah), 8,196 miles; Independence (California), 6,319 miles.

The maximum velocity at Carson City was 36 miles per hour, from the northeast, on the 6th; Winnemucca, 59 miles per hour, from the northwest, on the 6th; Modena, 42 miles per hour, from the southwest, on the 14th, and 36 miles per hour, from the west, at Independence, on the 6th.

The average number of clear days was 21; partly cloudy, 5; cloudy, 4; days with .01 or more of precipitation, 1.

COMPARATIVE TEMPERATURE AND PRECIPITATION DATA FOR  
JUNE DURING THE PAST SIXTEEN YEARS.

Year.	Mean.	Temperature Highest.	Lowest.	Average Precipitation, Inches and 100ths.
1889	70.0	110	30	0.22
1890	61.5	109	24	0.05
1891	59.8	97	8	1.18
1892	62.8	110	22	1.06
1893	63.8	100	18	0.04
1894	57.8	92	20	1.12
1895	62.9	109	14	0.13
1896	68.7	117	25	0.22
1897	62.8	112	20	0.37
1898	65.0	104	20	0.19
1899	63.7	103	21	0.60
1900	67.7	111	28	0.32
1901	59.1	99	21	0.15
1902	66.3	116	20	0.04
1903	66.5	113	28	0.45
1904	63.6	106	11	0.04

## MISCELLANEOUS PHENOMENA.

(Stations and Dates of Occurrence.)

*Earthquakes*—Carson City, 20th.

*Light Frost*—Carson City, 5th, 8th, 25th.

*Killing Frost*—Carson City, 7th; Potts, 9th; Crane's Ranch, 24th.

*Thunder Heard*—Carson City, 29th; Geyser, 13th, 20th, 23d; Lewers' Ranch, 27th.

*Thunderstorms*—Halleek, 6th; Winnemucca, 6th, 22d;



Geyser, 7th, 21st; Morey, 21st, 22d; Austin, 30th; Wood, 20th; Battle Mountain, 29th, 30th; Palmetto, 20th, 21st, 22d, 23d; Potts, 13th, 14th, 21st, 28th, 29th.

*High Winds*—Winnemucca, 6th; Martin's Ranch, 6th; Palmetto, 3d, 6th, 7th; Potts, 6th, 8th, 13th, 14th, 16th; Candelaria, 5th, 6th, 24th, 28th, 29th; Geyser, 6th; Lewers' Ranch, 14th, 15th; Carson City, 6th, 9th.

#### OBSERVERS' REMARKS.

EUREKA—An exceedingly warm and dry month.

GEO. L. BROY.

WOOD—Hay crop fine; grain average; range feed good and stock in excellent condition.

A. H. WISEMAN.

LEWERS' RANCH—A very favorable month for ranching. Water plentiful throughout the month for the irrigation of crops.

MRS. ROSS LEWERS.

GEYSER—Feed on the range has been very poor and cattle are not looking as well as usual at this time of the year. The hay crop will be light.

A. D. CAMPBELL.

HALLECK—A remarkably pleasant June. High water in the Humboldt River the entire month. The outlook for a large crop of hay was never better. Range grass fine and abundant.

W. H. BRANDENBURG.

TAMARACK (Cal.)—There is considerable snow in heavy timber and deep ravines at the headwaters of the Carson and Little Truckee Rivers.

WILLIAM BENNETT.

#### WEATHER AND CROPS.

*Week ending June 6, 1904*—The temperature during the week has averaged slightly below normal, and the weather was partly cloudy to cloudy in most sections of the State. Light to heavy showers occurred in Elko, White Pine and Humboldt Counties the early part of the week. Frost occurred on a few mornings, but not heavy enough to cause much damage. As a rule the weather conditions were quite favorable for the growth and advancement of all crops, which are reported to be in excellent condition and making rapid progress. In the eastern and northeastern sections the potatoes are coming up and the grain crops are doing well. In the southeastern portion the harvesting of grain is in progress and the second crop of alfalfa will soon be ready to cut. Alfalfa is blooming in the Humboldt Valley and in the western districts. Garden truck is doing nicely and the range grass is abundant in most districts. Wheat, oats and barley are making good growth and look promising. The apple crop is promising, with a fair crop of other fruits in sight. Stock of all kinds are doing well, the pasturage and range feed being fine generally. Sheep shearing is nearing completion and the clip is reported to be very satisfactory; the loss of lambs to date has been comparatively small.

*Week ending June 13, 1904*—The temperature was nearly normal and the weather generally clear throughout the week, with a high percentage of sunshine. Light to heavy frost occurred in western districts on the mornings of the 7th and 8th, and scattered showers fell in the eastern and northern sections on the 6th and 7th. High winds prevailed during middle of the week. The weather conditions have been very favorable for growth of crops and harvesting operations. In the eastern part of the State the grain crops are a little backward, but doing well. In the western portion barley is heading out and the first crop of alfalfa is being cut. Early garden vegetables are ready for use in the eastern portion, and strawberries are ripe in the western portion. The range feed is reported as being unusually fine in most districts, and stock of all kinds are in excellent condition. Grasshoppers are hatching in Churchill County. Water is plentiful in all sections for irrigation and other purposes.

*Week ending June 21, 1904*—Favorable weather conditions for crop growth and harvesting operations prevailed throughout the State during the past week. The days were quite warm and generally cloudless. A few of the nights were quite cool, but no damaging frost resulted. Crops of all kinds made rapid growth during the week, and are everywhere reported as being in fine condition and making satisfactory progress. A fine first crop of alfalfa is now being harvested over the northern half of the State, while in the southeastern portion the cutting of the second crop is in progress. A great deal of the wheat and barley in the southeastern part of the State has been cut and stacked; the yield is said to be very satisfactory. Corn and potatoes are growing nicely, and garden truck is doing well. Alfalfa, wheat, barley, oats and rye are all fine crops this season. Bees are doing well and making plenty of honey. Home-grown berries are plentiful in the local markets. The ranges continue in good condition and stock of all kinds are getting fat. The rivers are still quite high and irrigating ditches carry a good volume of water.

*Week ending June 27, 1904*—The temperature was about normal and the weather clear to partly cloudy during the past week. There was a light frost in some localities on the mornings of the 23d, 24th and 25th, but no damage is reported. Light thunder showers occurred in the eastern, western and northern sections during the middle of the week. The weather conditions continue favorable to farming interests. Irrigation water appears to be quite plentiful in all districts for the requirement of crops. Haying is well advanced in the southeastern section, and will be general over the remainder of the State during the coming week; the crop is heavy in the majority of districts. Reports indicate that the grain crops are in excellent condition and making satisfactory progress; in the southeastern portion most of the wheat and barley is in the stack. Corn, potatoes and garden truck look promising and are making rapid growth. Range feed is still good and cattle are in fine condition.



## CLIMATOLOGICAL DATA FOR JUNE, 1904.

		Temperature (degrees Fahrenheit)										Precipitation (inches)											
Stations.	Counties	Elevation (feet)	Length of record (years)	Temperature (degrees Fahrenheit)							Precipitation (inches)							Remarks					
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall in inches	Number rainy days	Number clear days	Number partly cloudy days	Number overcast days	Prevailing direction of wind				
Northern Section.																							
Battle Mountain-1	Lander	4,511	31	60.0	+0.7	100	17	38	10	55	T	-0.54	T	0.0	0	15	0	15		Agent So. Pacific Co.			
Beowawe-3	Eureka	4,695	31	61.5	-7.3	97	15	35	2		T	0.11	T	0.0	0	29	0	1		Agent So. Pacific Co.			
Carlin-3	Elko	4,847	34																	Agent So. Pacific Co.			
Crane's Ranch†	Elko	5,530	17								0.20	+0.06	0.10	0.0	2	26	4	0	W	W. T. Crane			
Elko-1	Elko	5,063	31	62.8	1.7	95	30	32	24	56	T	-0.45	T	0.0	0	21	1	5	NE	C. H. Sprinkle			
Penelon	Elko	6,128	17	67.1	+2.3	92	18	40	7					0.0		22	0	8	W	Agent So. Pacific Co.			
Golconda-3	Humboldt	4,392	26	69.0	-0.9	95	28	47	6		T	-0.59	T	0.0	0	26	4	0	SW	Agent So. Pacific Co.			
Halleck-3	Elko	5,229	32	62.1	-2.6	90	27	38	7		0.22	0.21	0.22	0.0	1	21	5	1	SW	Agent So. Pacific Co.			
Humboldt-1	Humboldt	4,236	33	67.4	+1.1	93	30	38	4	12	T	-0.35	T	0.0	0	29	1	0	S	Agent So. Pacific Co.			
Lee	Elko		6																	Miss Jennie Williams			
Lovelock-1	Humboldt	3,977	13	68.0	-2.0	98	28	39	8	48	0.00	-0.00	0.00	0.0	0	28	1	1		Agent So. Pacific Co.			
Mill City-3	Humboldt	4,225	16	70.8	+2.2	100	25	50	1		0.00	-0.12	0.00	0.0	0					Agent So. Pacific Co.			
Palisade-1	Eureka	4,821	23	62.6	-3.5	96	28	35	4	54	0.00	-0.51	0.00	0.0	0	29	0	1		Agent So. Pacific Co.			
Quinn River Ranch*-1	Humboldt	4,850	3																	F. M. Payne			
Tecoma-1	Elko	4,812	27																	Agent So. Pacific Co.			
Toano-3	Elko	5,975	35																				
Wells-3	Elko	5,623	33	69.4	+4.1	87	17	34	24		0.00	-0.39	0.00	0.0	0	25	4	1	SW	Agent So. Pacific Co.			
Winnemucca-1	Humboldt	4,132	26	63.6	+1.2	92	28	34	24	11	0.07	0.71	0.04	0.0	3	26	3	1	NE	U. S. Weather Bureau			
aWood-1	Elko	6,000	5	58.8		85	13	32	23	46	0.27		0.23	0.0	2	22	6	1		A. H. Wiseman			
Eastern Section.		Means		64.9	0.5						0.06	-0.36			1	25	2	3	SW				
Ely-1	White Pine	6,000	17	60.4	+1.2	90	28	30	24	45	0.15	-0.22	0.15	0.0	1	22	7	1		D. S. Dickerson			
Hamilton-1	White Pine	7,977	4																	Mrs. J. F. Beck			
Central Section.		Means		60.4	+1.2						0.15	-0.22		0.0	1	22	7	1					
Austin-1	Lander	6,594	16	61.8	+2.0	87	28	36	3	37	0.05	-0.73	0.05	0.0	1	20	0	10	W	H. W. Dyer			
Eureka-1	Eureka	6,990	2	57.4		100	20	11	3	59	0.00		0.00	0.0	0	18	6	6	N	Geo. L. Broy			
Potts-1	Nye	6,826	12	59.9		91	22	27	9	55	0.00	-0.10	0.00	0.0	0	10	8	12	N	Miss Bessie Potts			
Western Section.		Means		59.7	+2.0						0.02	-0.42			0	16	5	9	N				
Carson City-2	Ormsby	4,660	25	62.2	+1.0	91	28	32	7	48	T	-0.43	T	0.0	0	27	3	0	SW	C. W. Friend			
Carson City (W. B.)-1	Ormsby	4,720	15	62.2	+1.0	89	28	33	7	42	0.00	-0.43	0.00	0.0	0	22	5	3	W	U. S. Weather Bureau			
Fallon-1	Churchill		1	66.0		93	29	39	3	49	0.00		0.00	0.0	0	21	9	0		Mrs. Ida Dolf			
Glenbrook	Douglas	6,282									0.00		0.00	0.0	0					D. Couillard			
Lewers' Ranch*-1	Washoe	5,200	17	61.0	+0.4	90	28	33	7	44	T	-0.45	T	0.0	0	21	9	0	SW	Mrs. Ross Lewers			
Martin's Ranch*-1	Douglas	4,830	6	66.8		106	28	34	7	61	T		T	0.0	0	28	1	1	SW	Mrs. J. H. Martin			
Reno-1	Washoe	4,484	34	64.0	-0.4	92	29	40	8	41	T	-0.19	T	0.0	0	23	7	0	W	S. B. Doten			
Wabuska-1	Lyon	4,347	2	65.2		95	29	32	8	52	0.00		0.00	0.0	0	23	6	1		J. H. Harcourt			
Wadsworth-1	Washoe	4,077	33			98	26	51	2		0.00	-0.20	0.00	0.0	0	30	0	0	E	Agent So. Pacific Co.			
Southern Section.		Means		63.9	+0.6						0.00	-0.34			0	24	5	1	SW				
gBelmont-1	Nye	8,132	13	64.0		89	19	37	8	45	0.17	-0.35	0.17	0.0	1	17	4	2	SW	W. N. Granger			
Candelaria-1	Esmeralda	5,783	15	69.6	+3.8	87	18	50	24	32	T	-0.16	T	0.0	0	16	9	5	NW	Bradford Dean			
Geyser-1	Lincoln			60.6		92	14	30	6	54	0.19		0.12	0.0	2	19	6	5	S	A. D. Campbell			
Hawthorne-1	Esmeralda	4,563	17	68.9	+0.6	98	30	40	6	48	0.27	-0.02	0.15	0.0	2	20	1	9	N	T. G. Watterson			
McAfee's Ranch-1	Esmeralda	4,835	1	64.7		91	13	34	5	55	0.00		0.00	0.0	0	24	6	0		G. A. McAfee			
Morey-1	Nye	7,384	1	65.9		100	19	35	3	52	T		T	0.0	0	11	19	0	S	Jas. B. Gilmore			
Palmetto-1	Esmeralda	6,500	15	60.2	+1.6	85	12	35	1	46	T	-0.49	T	0.0	0	22	8	0	E	Wm. Oothout, Jr.			
Pioche-1	Lincoln	6,100		65.3		102	21	32	4	56	T		T	0.0	0	18	6	6	S	A. A. Carmau			
Sodaville-1	Esmeralda	4,665	6	73.8		100	14	45	8	44	0.00		0.00	0.0	0	22	6	2	NW	Agent So. Pacific Co.			
Means				65.9	+2.0						0.07	-0.25			1	19	7	4	S				
State Means				63.6	+1.0						0.04	-0.34			1	21	5	4	SW				
Miscellaneous.																							
Modena (Utah)-1	Iron	5,470	4	64.5		88	19	41	9	42	0.11		0.07	0.0	2	19	11	0	SW	U. S. Weather Bureau			
Independence (Cal.)-1	Inyo	3,721	8	74.5		93	13	51	4	32	0.00		0.00	0.0	0	22	8	0	W	U. S. Weather Bureau			
Tamarack (Cal.)											T		T	0.0	0	27	3	0	SW	William Bennett			
Donner (Cal.)	Nevada	6,095									0.00		0.00	0.0	0	28	2	0	W	F. R. Williams			
Independence Lake (Cal.)	Sierra																			C. J. Gepper			
Tahoe (Cal.)	Placer	6,252									0.00		0.00	0.0	0					J. C. Haley			
Lundy (Cal.)	Mono										T		T	0.0	0					Al. Taylor			
Bridgeport (Cal.)	Mono	6,423									0.50		0.50	0.0	1	23	1	6		Geo. A. Montrose			
Glen Alpine (Cal.)											0.02		0.02	0.0	2					Katherine Chandler			

REFERENCES: 1. Weather Bureau maximum and minimum thermometers in use; 2. self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3. means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed before the name of a station, or against the data in the body of the form, indicates the number of days missing from the record; for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

\* Not considered in computing State or district means.

† Postoffice—Elko. ‡ Postoffice—Franktown. § Postoffice—Gardnerville. ¶ Postoffice—Amos.






DAILY MAXIMUM AND MINIMUM TEMPERATURES FOR JUNE, 1904.

Stations.	Day of Month.																															Monthly Means.			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Austin	Max. 68	65	65	66	75	69	61	68	77	76	72	81	79	84	81	81	82	80	78	82	80	81	81	86	73	78	81	87	84	80	76.1				
Battle Mountain	Min. 39	42	36	36	42	42	38	38	47	47	44	44	47	47	53	52	51	51	49	55	55	57	54	51	45	48	55	58	59	52	47.5				
Belmont	Max. 80	90	89	81	86	95	97	97	97	89	90	90	98	98	99	100	100	100	91	91	100	100	95	96	90	92	90	91	90	92	93	92.5			
Belmont	Min. 51	56	45	42	43	55	42	42	42	39	39	39	46	46	48	48	47	51	53	53	53	51	52	52	40	40	42	40	42	40	43	45.6			
Candelaria	Max. 71	76	78	79	81	80	74	81	85	85	80	85	86	86	88	87	87	89	89	84	79	72	71	71	70	54	57	50	48	48	48	47.6			
Carson City	Max. 65	75	69	75	81	72	72	79	79	80	79	85	87	85	83	83	83	81	82	82	88	88	83	78	70	83	83	86	84	83	81	81.8			
Carson City (W. B.)	Max. 63	72	67	72	77	69	70	78	76	78	77	83	85	82	82	79	78	79	82	85	79	74	68	81	81	88	89	85	81	81	80.4				
Elko	Max. 47	54	44	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	41.0			
Ely	Max. 38	67	40	38	34	36	34	36	34	36	34	35	44	43	44	44	44	44	44	44	44	46	44	46	44	43	32	37	38	37	41	49	39.3		
Ely	Min. 68	69	60	77	81	80	81	68	79	80	75	84	82	84	86	84	83	88	87	79	78	78	84	80	66	78	81	88	90	85	87	79.7			
Eureka	Min. 41	43	35	35	38	40	35	37	45	40	39	43	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	41.1			
Eureka	Max. 68	72	55	52	82	82	75	72	64	64	59	64	72	82	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86.7		
Fallon	Min. 29	40	11	30	31	20	15	22	20	19	31	41	41	30	39	33	39	39	38	32	42	48	50	30	34	32	49	48	50	49	49	49	49.5		
Fallon	Max. 80	80	76	78	80	78	83	87	85	83	84	86	89	89	90	90	90	91	90	91	90	88	89	75	87	89	89	92	93	92	91	86.1			
Geyser	Max. 44	41	39	39	42	40	41	43	41	45	44	46	48	49	51	50	51	50	51	52	51	50	49	44	41	42	40	52	51	49	45	45.9			
Geyser	Min. 73	74	73	71	76	81	64	72	82	80	83	87	90	92	85	86	86	88	90	84	78	84	85	74	75	86	90	80	87	88	81.7				
Hamilton	Max. 42	45	40	35	40	31	40	37	33	33	41	43	38	40	48	32	35	35	35	40	40	39	44	43	36	37	35	40	33	35	39.5				
Humboldt	Min. 72	75	75	79	80	78	83	87	85	83	84	86	89	89	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90		
Humboldt	Max. 47	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45			
Hawthorne	Max. 80	81	80	79	75	75	79	79	80	84	87	88	89	90	92	88	88	88	88	87	89	87	87	86	84	87	87	88	89	93	96	98	84.9		
Hawthorne	Min. 42	43	44	43	45	40	42	41	46	55	53	53	55	54	51	56	54	53	55	55	50	63	60	63	48	50	51	51	52	50	50	50	50	50	
Lewers' Ranch	Max. 65	72	60	58	42	44	42	33	38	44	45	45	45	48	45	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46		
Lewers' Ranch	Min. 40	50	38	42	44	42	33	38	44	45	41	45	45	48	45	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46		
Lovelock	Max. 74	78	76	79	82	71	82	79	82	88	86	87	88	93	95	94	90	91	90	91	89	93	90	91	87	85	93	97	98	97	98	98	98	98	
Lovelock	Min. 43	42	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41		
Martin's Ranch	Max. 66	82	84	87	88	82	80	89	91	94	90	95	97	98	92	98	92	98	92	98	97	95	88	80	90	95	96	106	91	92	91	92	91	90	
Martin's Ranch	Min. 42	54	73	77	84	81	75	79	89	84	86	90	91	87	85	84	86	89	88	86	87	89	87	77	85	89	91	90	86	87	85	84	84	84	
McAfee's Ranch	Max. 77	85	73	73	84	81	75	79	89	84	86	90	91	87	85	84	86	89	88	86	87	89	87	77	85	89	91	90	86	87	85	84	84	84	
McAfee's Ranch	Min. 52	59	54	43	34	44	48	45	34	39	45	41	45	43	46	50	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	
Morey	Max. 70	72	73	81	90	88	69	78	87	91	94	91	95	92	90	90	94	94	100	100	82	88	85	81	85	91	92	95	94	92	94	92	94	94	94
Morey	Min. 41	38	35	35	35	38	47	35	38	45	42	45	45	48	45	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	
Palmetto	Max. 75	78	68	67	78	80	65	72	83	80	82	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	
Palmetto	Min. 35	39	44	40	35	45	38	36	37	40	38	39	45	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	
Palisade	Max. 67	72	71	80	74	79	67	74	84	79	74	81	86	94	92	88	94	92	88	94	92	88	88	88	88	88	88	88	88	88	88	88	88	88	
Palisade	Min. 51	50	45	35	36	35	38	37	36	49	41	44	49	45	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	
Pioche	Max. 82	83	86	70	81	88	83	87	94	90	95	99	95	99	95	97	91	89	94	96	102	90	89	88	85	90	94	96	92	97	97	97	97	97	
Pioche	Min. 43	41	37	32	34	38	35	37	35	40	46	44	47	48	47	48	47	48	47	48	46	41	48	49	48	48	48	48	48	48	48	48	48	48	
Potts	Max. 71	70	60	73	84	85	67	70	73	81	81	89	85	85	85	86	86	87	90	87	86	91	79	76	84	84	91	90	87	80	87	80	81	81	
Potts	Min. 45	42	36	30	33	47	40	32	27	34	31	35	38	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
Quinn River Ranch	Max. 65	75	78	67	71	82	70	77	80	75	75	78	83	87	85	83	83	82	83	83	80	85	88	84	78	70	81	87	88	92	88	88	80.3		
Quinn River Ranch	Min. 45	42	36	30	33	47	40	32	27	34	31	35	38	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
Reno	Max. 65	75	78	67	71	82	70	77	80	75	75	78	83	87	85	83	83	82	83	83	80	85	88	84	78	70	81	87	88	92	88	88	80.3		
Reno	Min. 44	44	44	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	
Sodaville	Max. 78	85	72	87	95	88	82	93	87	87	85	98	97	100	97	96	98	95	97	90	96	92	92	90	85	85	92	93	95	95	92	94	94	94	
Sodaville	Min. 55	53	46	47	58	50	46	45	58	60	58	59	65	60	63	60	62	62	64	62	61	62	52	51	52	51	52	58	56	61	58	58	58	56.6	
Tecoma	Max. 80	74	80	70	78	80	84	75	83	88	82	82	87	90	92	90	90	88	88	84	90	90	92	85	85	75	85	92	93	95	92	94	94	94	
Tecoma	Min. 45	50	46	44	34	55	38	32	40	42	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
Wadsworth	Max. 79	80	79	78	82	79	80	79	83	77	79	78	93	94	92	90	89	78	80	93	87	84	82	78	82	82	98	96	95	92	89	89	89	89	
Wadsworth	Min. 63	72	67	73	82	68	67	74	83	73	74	80	86	80	87	84	80	80	80	85	88	88	84	72	71	78	85	89	92	90	84	84	84	84	
Winneux	Max. 46																																		



**SCALE OF SHADES—Inches.**

[White box]	0 to .10
[Horizontal lines box]	.10 to .20
[Diagonal lines box]	.20 to .30

	0 to .10
	.10 to .20
	.20 to .30



## DAILY PRECIPITATION FOR JUNE, 1904.

Stations.	Day of Month.																															Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
<i>Northern Section.</i>																																
Battle Mountain																																
Beowawe																																
Carlin																																
Crane's Ranch																																
Elko																																
Golconda																																
Halleck																																
Humboldt																																
Lee																																
Lovelock																																
Mill City																																
Palisade																																
Quinn River Ranch																																
Tecoma																																
Tono																																
Wells																																
Winemucca																																
Wood	.01	T			.04	.02	.04													T												
<i>Eastern Section.</i>																																
Ely																																
Hamilton																																
<i>Central Section.</i>																																
Austin																																
Eureka	.05																															
Potts																																
<i>Western Section.</i>																																
Carson City																																
Carson City (W. B.)																																
Fallon																																
Glenbrook																																
Lewers' Ranch																																
Martin's Ranch	T																															
Reno																																
Wabuska																																
Wadsworth																																
<i>Southern Section.</i>																																
Belmont																																
Candelaria																																
Geyser																																
Hawthorne																																
McAfee's Ranch																										</						

T indicates trace. \* Precipitation included in that of following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, -  - ANDREW MAUTE, SUPT.

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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JULY, 1904.

NEVADA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU

IN COÖPERATION WITH THE

NEVADA STATE WEATHER SERVICE

(CHARLES W. FRIEND, Director.)

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF  
WILLIS L. MOORE,  
CHIEF OF WEATHER BUREAU,

BY  
J. H. SMITH,  
SECTION DIRECTOR,  
CARSON CITY, NEVADA.

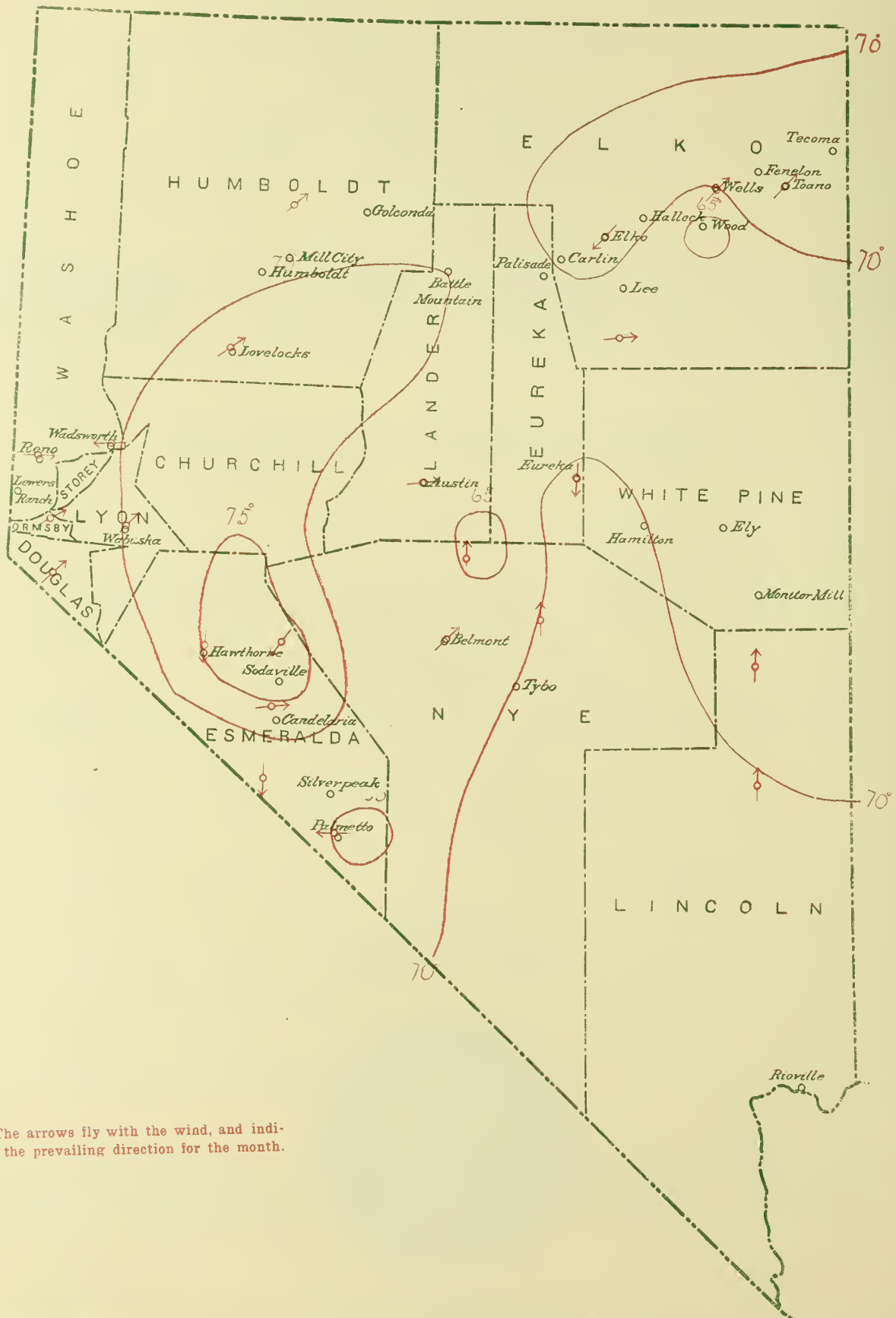


CARSON CITY, NEV.:  
WEATHER BUREAU OFFICE.

Sept. 2, 1904



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR JULY, 1904.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION.

J. H. SMITH Section Director,

CARSON CITY, NEVADA.

VOL. XVIII

CARSON CITY, NEVADA

No. 7.

## CLIMATOLOGY OF THE MONTH.

## Atmospheric Pressure—Inches and Hundredths.

The mean atmospheric pressure for the State, reduced to sea level, as determined from the records of the United States Weather Bureau stations at Carson City and Winnemucca (Nevada), Modena (Utah), and Independence (California), was 29.84 inches.

The highest pressure, 30.06 inches, was recorded at Winnemucca, on the 24th, and the lowest, 29.54 inches, at Independence, on the 15th.

The absolute range of pressure for the State was 0.52 of an inch.

## Temperature—Degrees Fahrenheit.

The mean temperature for the State, as determined from the reports of thirty stations, was 68.7 inches, which is 1.8 below normal.

By sections, the means were: Northern, 69.9; eastern, 66.5; central, 68.4; western, 68.7; southern, 70.2.

The highest monthly mean, 78.4, was recorded at Soda-ville, Esmeralda County.

The lowest monthly mean, 63.8, was recorded at Wood, Elko County.

The highest temperature, 110, was recorded at Eureka, Eureka County, on the 22d.

The lowest temperature, 30, was recorded at Potts, Nye County, on the 10th and 11th.

The greatest local daily range of temperature, 66, was recorded at Battle Mountain, Lander County, on the 21st.

## Precipitation—Inches and Hundredths.

The average precipitation for the State was 0.51 of an inch, which is 0.01 of an inch below normal.

By sections, the averages were as follows: Northern, 0.67 of an inch; eastern, 0.29 of an inch; central, 0.60 of an inch; western, 0.07 of an inch; southern, 0.90 of an inch.

The greatest monthly amount, 3.82 inches, was recorded at Palmetto, Esmeralda County, and the least, none, at a few stations.

The greatest amount recorded in any twenty-four consecutive hours was 1.10 inches, at Elko, Elko County, on the 12th.

## Relative Humidity.

Carson City—8 a. m., 60 per cent; 8 p. m., 29 per cent; monthly mean, 44 per cent.

Winnemucca—8 a. m., 60 per cent; 8 p. m., 31 per cent; monthly mean, 46 per cent.

Modena (Utah)—8 a. m., 47 per cent; 8 p. m., 24 per cent; monthly mean, 34 per cent.

## Wind and Weather.

The prevailing direction of the wind was from the southwest.

The total movement of the wind at Carson City was 4,985 miles; Winnemucca, 6,156 miles; Modena (Utah), 9,077 miles; Independence (California), 6,362 miles.

The maximum velocity at Carson City was 36 miles per hour, from the southwest, on the 14th; Winnemucca, 43 miles per hour, from the southwest, on the 14th; Modena, 51 miles per hour, from the southwest, on the 15th, and 32 miles per hour, from the northwest, at Independence, on the 31st.

The average number of clear days was 19; partly cloudy, 8; cloudy, 4; days with .01 of an inch or more of precipitation, 3.

## COMPARATIVE TEMPERATURE AND PRECIPITATION DATA FOR JULY DURING THE PAST FIFTEEN YEARS.

Year.	Temperature			Average Precipitation, Inches and 100ths.
	Mean.	Highest.	Lowest.	
1890.....	74.0	118	28	0.15
1891.....	70.4	102	26	0.53
1892.....	70.6	115	30	0.67
1893.....	70.3	110	24	0.40
1894.....	71.7	108	32	0.75
1895.....	62.9	109	14	0.13
1896.....	72.7	112	33	0.79
1897.....	69.4	116	25	0.28
1898.....	73.5	114	30	0.12
1899.....	72.6	106	34	0.14
1900.....	70.6	113	33	0.37
1901.....	70.8	109	31	0.31
1902.....	67.9	116	25	0.44
1903.....	65.4	111	26	0.01
1904.....	68.7	110	30	0.51

## MISCELLANEOUS PHENOMENA.

(Stations and Dates of Occurrence.)

*Light Frost*—Geyser, 10th.

*Hail*—Sodaville, 23d, 30th; Palmetto, 31st.

*Distant Thunder*—Carson City, 6th, 21st; Lewers' Ranch, 5th, 6th, 20th, 21st.

*Thunderstorms*—Austin, 11th, 26th; Golconda, 7th; Lovelock, 7th; Pioche, 24th; Belmont, 26th, 30th; Eureka, 22d, 26th; Geyser, 21st, 22d, 23d, 25th; Wood, 12th, 21st, 22d, 23d; Sodaville, 22d, 23d, 27th, 30th, 31st; Potts, 4th, 6th, 7th, 21st, 26th, 30th, 31st; McAfee's Ranch, 21st, 22d, 23d, 24th, 25th, 26th, 30th, 31st; Candelaria, 5th, 6th, 7th, 8th.



22d, 23d, 25th, 26th, 27th, 30th, 31st; Morey, 5th, 6th, 21st, 22d, 23d, 24th, 26th, 27th, 30th, 31st; Palmetto, 4th, 5th, 6th, 7th, 21st, 22d, 23d, 24th, 25th, 26th, 27th, 30th, 31st.

## OBSERVERS' REMARKS.

GEYSER—Barley a light crop. A. D. CAMPBELL.

LEWERS' RANCH—No rain. Crops of all kinds did well; hay crop good. MRS. ROSS LEWERS.

LOVELOCK—The heaviest thunderstorm ever experienced in this locality occurred on the 7th, during which .77 of an inch of rain fell. L. L. MUSHETT.

POTTS—High winds on the 8th, 9th, 11th, 14th, 15th, 24th and 28th. MISS BESSIE POTTS.

## WEATHER AND CROPS.

*Week ending July 4, 1904*—The temperature during the past week has averaged slightly above normal, with generally fair weather over the greater part of the State. A few of the days were hot, and one or two of the nights were quite cool, but no damaging frost occurred. The weather conditions were favorable to the growing crops, which are in excellent condition and making good progress toward maturity. Range feed is drying up in a few localities, but it is still fine and abundant in most sections of the State. Live stock continues in excellent condition. The harvesting of alfalfa is pretty general all over the State, with yields above average, both in quantity and quality, in most districts. Potatoes and garden truck are doing well, and the outlook for fruit is promising. Irrigation water is still plentiful and holding out well.

*Week ending July 11, 1904*—The temperature was slightly below the normal and the weather partly cloudy during the past week. Scattered thunder showers fell over the northern, northwestern and southwestern sections of the State on the 6th and 7th. A phenomenally heavy rainfall, caused by a cloudburst, is reported to have occurred at and near Wabuska, Lyon County, on the 6th. Warmer weather prevailed at the close of the week. The weather conditions throughout the week were favorable to farming interests. Haying is well advanced and the yield is reported to be unusually heavy in the majority of districts. Potatoes and other vegetables are doing well. In the southeastern section a great deal of the grain has been cut and thrashed, and the second crop of alfalfa is nearly all in the stack. Range feed is fairly good, and cattle, horses and sheep are in fine condition. Except in a few localities, the water supply is amply sufficient for crop needs. Apples, pears and plums are of good size, and an average yield is expected.

*Week ending July 18, 1904*—The temperature averaged below normal and the weather was partly cloudy over the greater part of the State during the week, with light to heavy scattered showers in northern districts on the 11th and 12th, and strong winds on the 14th and 15th. The majority of

reports indicate a favorable condition of grain, potatoes and minor crops. Wheat and barley are beginning to ripen over the northern half of the State, with indications of a much better yield than last year in nearly all districts. The first crop of alfalfa is practically all in the stack, and the second crop is making rapid growth. The weather has been exceptionally fine for harvesting hay, but it has been too windy at times for hauling and stacking. The potato crop promises to be much better than last year. There is complaint that the grasshoppers are doing some damage to the second crop of alfalfa at the lower end of Lovelock Valley. Showers during the week improved range conditions in Elko County to a considerable extent. Irrigation water is quite plentiful, except over the southern portion, where it is rather scarce, and insufficient for crop needs. The condition of stock is reported as being very satisfactory.

*Week ending July 25, 1904*—High temperatures prevailed over the State during the past week, especially on the 19th and 20th, when the mercury reached and passed the 100 mark in many localities. Thunderstorms occurred over the western division on the 21st. Brisk to high winds were of almost daily occurrence. The warm weather during the week was highly favorable to growing crops. Over the northern half of the State the wheat and barley are maturing rapidly and will soon be ready to harvest. Haying continues with satisfactory results in quantity and quality. Reports indicate a favorable outlook for a good second crop of alfalfa, except in a few southern localities where it will be light owing to a shortage of water. Potatoes and garden truck are doing well and look promising, according to reports. The range feed continues quite abundant and stock of all kinds are in fine condition. Water is still plentiful over most of the State for the requirement of crops.

## CLOUD-BURSTS.

The cloud-bursts of our western districts are only exaggerated thunder storms. They are local and short-lived, and seem to result from the sudden overturning of a large mass of unstable atmosphere. The clouds that accompany these storms have every feature indicative of a convectational origin, and, as with us, may be placed at the end of a well-continued series, beginning with ordinary cumulus clouds; passing then to moderate thunder showers, from which so little rain falls that it evaporates on its way down through the thirsty lower air, and hardly a drop reaches the parched ground; next to more active local thunder storms of the usual type; and all of these culminating in a drenching fall of waters from the cloud-burst. A narrow strip of country is inundated by such storms for a short distance; temporary streams then rush down channels that are nearly dry at other times, gathering sand and dust, and delivering the discharge of the storm to the main valleys in dark, muddy torrents, many miles from the place of rainfall.—*Davis' Elementary Meteorology.*



## CLIMATOLOGICAL DATA FOR JULY, 1904.

Stations	Counties	Elevation (feet)	Length of record (years)	Temperature (degrees Fahrenheit)							Precipitation (inches)					Sky					Observer
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.	Prevailing direction of wind.		
Northern Section.																					
Battle Mountain-1	Lander	1,511	34	70.1	7.3	106	21	40	18	66	T	0.13	T	0.0	0	13	5	13		Agent So. Pacific Co.	
Boowawe-3	Eureka	4,695	31	61.2		100	15	39	9		0.20	0.00	0.10	0.0	2	26	0	5	S	Agent So. Pacific Co.	
Carlin-3	Elko	4,897	31	71.7	-1.3	99	21	54	16					0.0	17	11	3	W		Agent So. Pacific Co.	
Crane's Ranch†	Elko	5,350	17								0.76	+0.45	0.42	0.0	4	21	8	2	W	W. T. Crane	
Elko-1	Elko	5,063	34	66.9	-1.2	101	21	34	13	57	1.90	+1.69	1.10	0.0	4	17	13	1	NE	C. H. Sproule	
Penelon	Elko	6,128	17	70.7	-1.9	96	21	49	1					0.0		17	14	0	W		
Golconda-3	Humboldt	1,392	26								0.30	+0.22	0.15	0.0	3	25	6	0	S	Agent So. Pacific Co.	
Halleck-3	Elko	5,229	32	73.1	+0.2	96	31	60	11		2.46	+2.36	1.02	0.0	6	19	9	3	SW	Agent So. Pacific Co.	
Humboldt-1	Humboldt	4,236	33																	Agent So. Pacific Co.	
Lee	Elko		6																	Miss Jennie Williams	
Lovelock-1	Humboldt	3,977	13	72.4	6.7	100	26	42	17	50	0.77	0.75	0.77	0.0	1	29	1	1	SW	Agent So. Pacific Co.	
Mill City-3	Humboldt	4,225	16								0.00		0.00	0.0	0	7	22	2		Agent So. Pacific Co.	
Palisade-1	Eureka	4,821	23	68.2	-6.3	98	20	36	20	62	1.29	+1.16	0.61	0.0	3	28	0	3		Agent So. Pacific Co.	
Quinn River Ranch-1	Humboldt	4,850	3																	F. M. Payne	
Tecoma-1	Elko	4,812	27																	Agent So. Pacific Co.	
Toano-3	Elko	5,975	35	75.6	+1.1	102	29	40	1		0.28	+0.03	0.18	0.0	2	26	2	3	SW	Agent So. Pacific Co.	
Wells-3	Elko	5,623	33	73.0	-0.0	98	30	41	1		0.78	+0.55	0.17	0.0	6	17	0	14	SW	Agent So. Pacific Co.	
Winumacca-1	Humboldt	4,432	26	68.7	-2.7	94	21	40	16	42	0.65	+0.50	0.47	0.0	7	21	8	2	NE	U. S. Weather Bureau	
Wood-1	Elko	6,000	5	63.8		91	20	37	30	45	0.51		0.20	0.0	7	13	18	0		A. H. Wiseman	
Eastern Section.																					
Means				69.9	-3.1						0.67	+0.44		0.0	4	20	7	4	SW		
Ely-1	White Pine	6,000	17	66.5	-0.8	93	18	40	15	48	0.29	-0.28	0.17	0.0	3	20	8	3		D. S. Dickerson	
Hamilton-1	White Pine	7,977	4																	Mrs. J. F. Beck	
Central Section.																					
Means				66.5	-0.8						0.29	-0.28		0.0	3	20	8	3			
Austin-1	Lander	6,594	16	68.0	-0.9	90	21	43	16	34	0.31	-0.20	0.13	0.0	5	24	0	7	W	H. W. Dyer	
Eureka-1	Eureka	6,990	2	72.8		110	22	39	6	55	1.50		0.60	0.0	3	21	5	5	N	Geo. L. Broy	
Potts-1	Nye	6,826	12	64.5		97	18	30	10	57	T	-0.82	T	0.0	0	7	17	7	S	Miss Bessie Potts	
Western Section.																					
Means				68.4	-0.9						0.60	-0.51		0.0	3	18	7	6	W		
Carson City-2	Ormsby	4,660	25	66.4	-1.6	94	20	38	1	45	T	-0.17	T	0.0	0	27	4	0	SW	C. W. Friend	
Carson City (W. B.)-1	Ormsby	4,720	15	66.8	-1.2	92	20	40	16	40	T	-0.17	T	0.0	0	23	7	1	W	U. S. Weather Bureau	
Fallon-1	Churchill		1	73.7		98	18	48	1	45	0.10		0.10	0.0	1	16	15	0		Mrs. Ida Dolf	
Glenbrook	Douglas	6,282									0.00		0.00	0.0	0					D. Couillard	
Lewers' Ranch-1	Washoe	5,200	17	67.2	-1.6	92	19	38	16	42	T	0.20	T	0.0	0	18	11	2	SW	Mrs. Ross Lewers	
Martin's Ranch-1	Douglas	4,830	6	71.1		102	19	37	1	57	0.15		0.15	0.0	1	28	2	1	SW	Mrs. J. H. Martin	
Reno-1	Washoe	4,484	34	68.3	-4.8	93	19	39	16	40	T	-0.08	T	0.0	0	20	11	0	W	S. B. Doten	
Wabuska-1	Lyon	4,347	2	70.0		98	22	36	16	50	0.35		0.20	0.0	2	17	12	2	SW	J. H. Harcourt	
Wadsworth-1	Washoe	4,077	33			95	29				0.00	-0.22	0.00	0.0	0	31	0	0	E	Agent So. Pacific Co.	
Southern Section.																					
Means				68.7	-2.3						0.07	-0.17		0.0	0	22	8	1	SW		
Belmont-1	Nye	8,132	13	66.3	-2.3	90	20	40	8	41	0.21	-0.32	0.16	0.0	2	17	4	10	SW	W. N. Granger	
Candelaria-1	Esmeralda	5,783	15	71.0	-3.4	93	20	45	17	44	0.15	-0.21	0.10	0.0	2	20	8	3	W	Bradford Dean	
aGeyser-1	Lincoln			65.8		98	20	32	10	56	0.54		0.25	0.0	4	16	8	6	S	A. D. Campbell	
Hawthorne-1	Esmeralda	4,569	17	75.2	+0.6	99	25	50	13	45	0.13	-0.14	0.05	0.0	3	17	13	1	N	T. G. Watterson	
McAfee's Ranch-1	Esmeralda	4,835	1	68.8		96	21	41	17	49	0.01		0.01	0.0	1	15	13	3	N	G. A. McAfee	
Morey-1	Nye	7,384	1	71.9		105	19	41	16	51	1.19		0.52	0.0	9	18	13	0	S	Jas. B. Gilmore	
Palmetto-1	Esmeralda	6,500	15	64.2	-2.6	90	21	35	12	42	3.82	+2.67	0.85	0.0	8	18	5	8	E, SE	Wm. Oothout, Jr.	
bPioche-1	Lincoln	6,100		70.5		103	26	41	1	58	0.94		0.55	0.0	4	12	1	16	S	A. A. Carman	
Sodaville-1	Esmeralda	4,665	6	78.4		107	22	51	9	45	1.15		0.56	0.0	4	18	5	8	NW	Agent So. Pacific Co.	
Means				70.2	-1.9						0.90	+0.50		0.0	4	17	8	6	S		
State Means				68.7	-1.8						0.51	-0.01		0.0	3	19	8	4	SW		
Miscellaneous.																					
Modena (Utah)-1	Iron	5,470	4	70.3		95	19	45	9	40	0.69		0.26	0.0	6	16	12	3	SW	U. S. Weather Bureau	
Independence (Cal.)-1	Inyo	3,721	8	78.2		97	20	59	16	30	T		T	0.0	0	20	8	3	NW	U. S. Weather Bureau	
Tamarack (Cal.)											0.29		0.18	0.0	2	26	4	1	SW	William Bennett	
Donner (Cal.)	Nevada	6,095									0.12		0.12	0.0	1	22	7	2	W	F. R. Williams	
Independence Lake (Cal.)	Sierra																			C. J. Gepper	
Tahoe (Cal.)	Placer	6,252																		J. U. Haley	
Lundy (Cal.)	Mono										0.15		0.10	1.5	2					Al. Taylor	
Bridgeport (Cal.)	Mono	6,423									0.24		0.12	0.0	3	22	6	3		Geo. A. Montrose	
Glen Alpine (Cal.)											0.01		0.01	0.0	1					Katherine Chandler	

REFERENCES: 1. Weather Bureau maximum and minimum thermometers in use; 2. self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3. means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed before the name of a station, or against the data in the body of the form, indicates the number of days missing from the record; for instance, "n" denotes 14 days missing. *Italic figures* indicate the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

\* Not considered in computing State or district means.

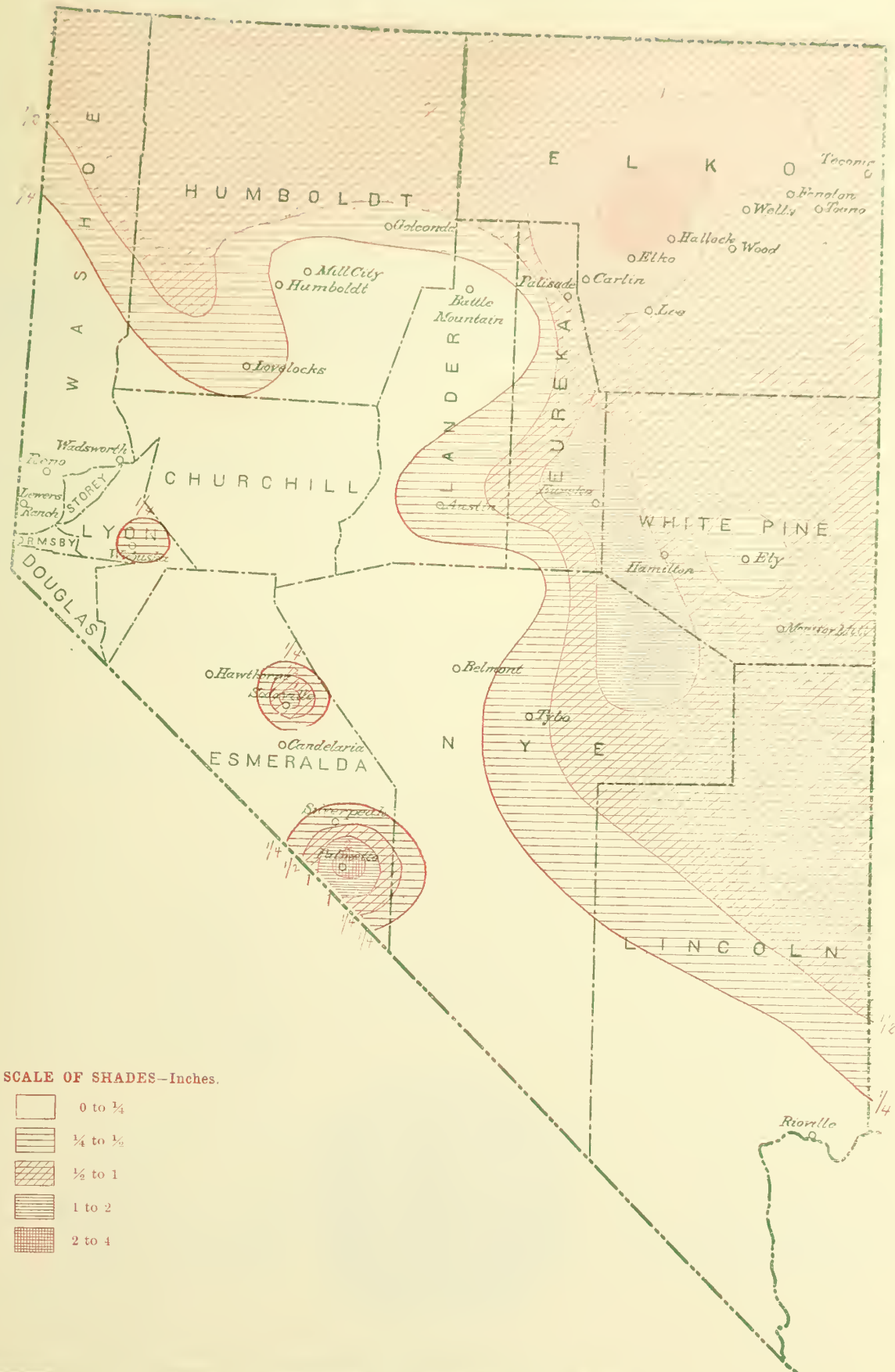
† Postoffice—Elko. ‡ Postoffice—Franktown. § Postoffice—Gardnerville. ¶ Postoffice—Amos.



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# TOTAL PRECIPITATION FOR JULY, 1904.





## DAILY PRECIPITATION FOR JULY, 1904.

Stations.	Day of Month																															Total		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Northern Section.																																		
Battle Mountain											T																						T	0.20
Beowawe							.10																											0.76
Carlin					.06		.23				T	.42										.05	.10											1.90
Crane's Ranch				.40	T		.15				.30	1.10										.43	.55											0.30
Elko				.10							.05	.25	1.02																					2.46
Golconda																																		
Halleck					.06																													
Humboldt																																		
Lee																																		0.77
Lovelock							.77																											0.00
Mill City							.45				.20	.64																						1.29
Palisade																																		
Quinn River Ranch																																		
Tecoma																																		0.28
Toano				.10	.10						.18													.12	.14									0.78
Wells				.03	.01		.02	.47			.13	.17											.05	.04										0.65
Winnemucca					.02	.08	.05				T	.20											T	.04										0.51
Wood																																		
Eastern Section.																																		
Ely																																		0.29
Hamilton																																		
Central Section.																																		
Austin																																		0.31
Eureka							.13	.02			.05												.07											1.50
Potts																						.50												T
Western Section.																																		
Carson City																																		T
Carson City (W. B.)																																		T
Fallon				.10																														0.10
Glenbrook																																		0.00
Lewers' Ranch																																		T
Martin's Ranch																						.15												T
Reno																																		T
Wabuska							.20																											T
Wadsworth																																		0.35
Southern Section.																																		
Belmont																																		0.21
Candelaria																																		0.15
Geyser																																		0.54
Hawthorne																																		0.13
McAfee's Ranch																																		0.01
Morey																																		1.19
Palmetto																																		3.82
Pioche																																		0.94
Sodaville																																		1.15
Miscellaneous.																																		
Modena (Utah)																																		0.69
Independence (Cal.)																																		T
Tamarack (Cal.)																																		T
Donner (Cal.)																																		0.29
Independence Lake (Cal.)																																		0.12
Tahoe (Cal.)																																		0.15
Lundy (Cal.)																																		0.24
Bridgeport (Cal.)																																		0.12
Glen Alpine (Cal.)																																		0.01

T indicates trace. \* Precipitation included in that of following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, -  - ANDREW MAUTE, SUPT.

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U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR AUGUST, 1904.

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NEVADA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU

IN COÖPERATION WITH THE

NEVADA STATE WEATHER SERVICE

(CHARLES W. FRIEND, Director.)

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU,

BY

J. H. SMITH,

SECTION DIRECTOR,

CARSON CITY, NEVADA.

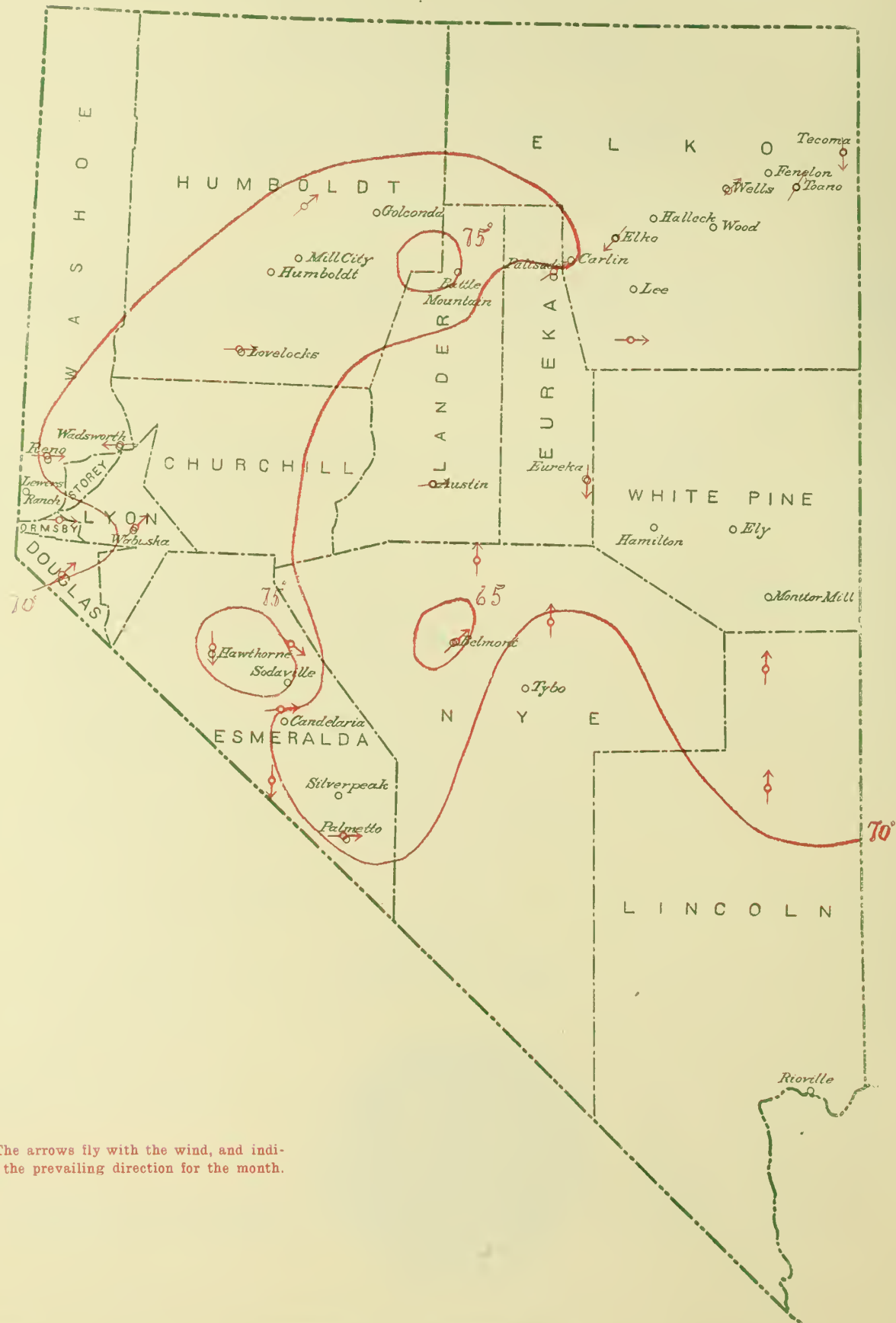


CARSON CITY, NEV.:  
WEATHER BUREAU OFFICE.

Sept. 30, 1904



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR AUGUST, 1904.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## NEVADA SECTION.

J. H. SMITH, Section Director,

CARSON CITY, NEVADA.

VOL. XVIII

CARSON CITY, NEVADA.

No 8

## CLIMATOLOGY OF THE MONTH.

## Atmospheric Pressure—Inches and Hundredths.

The mean atmospheric pressure for the State, reduced to sea level, as determined from the records of the United States Weather Bureau stations at Carson City and Winnemucca (Nevada), Modena (Utah), and Independence (California), was 29.94 inches.

The highest pressure, 30.15 inches, was recorded at Independence, on the 14th, and the lowest, 29.62 inches, at Modena, on the 20th.

The absolute range of pressure for the State was 0.53 of an inch.

## Temperature—Degrees Fahrenheit.

The mean temperature for the State was 68.6, which is 1.2 below normal.

By sections, the means were: Northern, 69.4; eastern, 66.2; central, 66.5; western, 71.3; southern, 69.5.

The highest monthly mean, 76.3, was recorded at Sodaville, Esmeralda County.

The lowest monthly mean, 64.4, was recorded at Beowawe, Eureka County, and Belmont, Nye County.

The highest temperature, 105, was recorded at Sodaville, on the 7th.

The lowest temperature, 22, was recorded at Tecoma, on the 20th.

The greatest local daily range of temperature, 60, was recorded at Eureka, on the 30th.

## Precipitation—Inches and Hundredths.

The average precipitation for the State was 1.81 inches, which is 1.33 inches above normal, and 1.71 inches in excess of the average for the corresponding month of 1903.

By sections, the averages were as follows: Northern, 0.54 of an inch; eastern, 2.53 inches; central, 2.16 inches; western, 0.32 of an inch; southern, 3.49 inches.

The greatest monthly amount, 6.95 inches, was recorded at Palmetto, Esmeralda County, and the least, none, at a few stations.

The greatest amount recorded in any twenty-four hours was 1.86 inches at Sodaville, Esmeralda County, on the 22d.

## Relative Humidity.

Carson City—8 a. m., 65 per cent; 8 p. m., 34 per cent; monthly mean, 50 per cent.

Winnemucca—8 a. m., 58 per cent; 8 p. m., 37 per cent; monthly mean, 48 per cent.

Modena (Utah)—8 a. m., 71 per cent; 8 p. m., 37 per cent; monthly mean, 54 per cent.

## Wind and Weather.

The prevailing direction of the wind was from the south-

west. Total movement of the wind at Carson City was 1,238 miles; Winnemucca, 5,188 miles; Modena (Utah), 7,468 miles; Independence (California), 5,733 miles.

The maximum velocity at Carson City was 38 miles per hour, from the south, on the 5th; Winnemucca, 44 miles per hour, from the south, on the 25th; Modena, 37 miles per hour, from the southwest, on the 22d; Independence, 38 miles per hour, from the southeast, on the 22d.

The average number of clear days was 12; partly cloudy, 8; cloudy, 11; days with .01 of an inch or more of precipitation, 7.

## COMPARATIVE TEMPERATURE AND PRECIPITATION DATA FOR AUGUST DURING THE PAST SIXTEEN YEARS.

Year.	Mean.	Temperature		Average Precipitation Inches and 100ths
		Highest.	Lowest	
1889	73.2	117	29	1.06
1890	70.1	109	28	2.06
1891	72.0	101	25	0.44
1892	71.2	105	20	0.01
1893	71.1	104	25	0.26
1894	71.0	105	30	0.45
1895	70.6	112	24	0.63
1896	69.0	109	34	0.82
1897	73.3	110	31	0.31
1898	73.6	112	29	0.45
1899	63.7	99	20	0.82
1900	66.6	110	30	0.04
1901	68.3	101	29	2.05
1902	68.9	117	30	0.22
1903	69.7	114	28	0.10
1904	68.6	105	22	1.81

## OBSERVERS' REMARKS.

EUREKA—Remarkably heavy rainfall for the month of August. GEO. L. BROY.

SODAVILLE—Very bad month for cloudbursts and wash-outs. W. M. RICHARDS.

MILL CITY—Heavy rain on the 25th for about fifteen minutes. W. R. RICH.

RENO—Dense smoke on the 21st and 22d. Telephones and electric lights damaged by lightning on the afternoon of the 25th. S. B. DOTEN.

GEYSER—This has been a month of thunder and lightning, with very hot sultry days, and scarcely any wind. Poor month for haying; considerable wild hay and second crop of alfalfa badly damaged. A. D. CAMPBELL.

HALLECK—Haying in valley finished; cutting second crop of alfalfa on irrigated uplands. Grain being harvested during latter part of month. Range feed good. During August 15,000 sheep sent to market. W. H. BRANDENBURG.

HAWTHORNE—On the 27th at 2:45 p. m., we experienced a so-called cloudburst. A large mass of cumulus clouds appeared over Mount Grant, directly west of the town, and traveled at a rapid rate from west to east. When about half a mile west of the town, a few drops of rain fell, which was preceded by a vivid flash of lightning and its subsequent thunder. Then a flash that seemed to split the very heavens, cleaving the blue sky from the zenith to the eastern horizon, and the peal of thunder that followed made the very earth tremble. From that electrical discharge, the telegraph line took on a coat of fire in the broad light of day that twinkled and flashed in the distance, and which lit up the office with an uncanny light as it overcharged the switch board in the telegraph office, and escaped through the



ground wire. Then came the rain, and for fifteen or twenty minutes it poured down in streams, and in the time it takes to tell it, the water was running down the street. In the meantime another thunder cloud came in from the southwest, which followed fast on the heels of the first one and dropped its mass of water while it passed. These two clouds came together about five miles east of town and their conjunction gave forth a grand display of the tremendous force of the elements; the lightning and thunder were incessant, and tons of water came down in torrents that fairly obliterated the land marks, and when the storm had passed, left the hills white with hail. The precipitation was nearly half hail, of a very peculiar shape, having a smooth rounding face and sloping to a point. T. G. WATTERSON.

#### MISCELLANEOUS PHENOMENA.

(Stations and Dates of Occurrence.)

*Duststorm*—Palmetto, 22d.

*Rainbow*—Morey, 3d, 6th, 15th.

*Dense Haze*—Palmetto, 21st.

*Killing Frost*—Halleck, 20th, 21st.

*Cloudburst*—Golconda, 26th, 27th; Hawthorne, 27th.

*Hail*—Eureka, 12th, 22d; Hawthorne, 27th; Palmetto, 1st, 8th, 13th, 15th, 26th; Potts, 26th; Winnemucca, 27th.

*Thunderstorms*—Hawthorne, 27th; Geyser, 9th, 28th; Eureka, 18th, 27th; McAfee's Ranch, 1st, 24th, 27th; Carson City, 14th, 24th, 25th; Morey, 3d, 4th, 7th, 16th, 17th, 22d, 23d, 26th, 27th, 28th; Reno, 2d, 5th, 18th, 24th, 25th, 26th; Sodaville, 13th, 16th, 22d, 24th, 26th, 27th; Winnemucca, 6th, 15th, 25th, 26th, 27th; Candelaria, 1st, 4th, 5th, 10th, 13th, 14th, 15th, 22d, 23d; Palmetto, 1st, 2d, 3d, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 13th, 14th, 15th, 16th, 26th, 27th; Potts, 3d, 5th, 9th, 10th, 11th, 12th, 13th, 14th, 16th, 24th, 25th, 26th, 27th; Belmont, 2d, 4th, 6th, 7th, 8th, 10th, 12th, 13th, 15th, 16th, 22d, 23d, 25th, 26th, 27th.

#### BELETED REPORT.

Wood—Mean temperature, 65.4; highest, 88, on the 5th, 6th and 8th; lowest, 33, on the 21st. Total precipitation, 0.64 of an inch. Number of clear days, 8; partly cloudy, 19; cloudy, 4; days with .01 of an inch or more of precipitation, 9.

#### WEATHER AND CROPS.

*Week ending August 1, 1904*—The weather during the week has been moderately warm and partly cloudy, with scattered thunder showers on July 25th, 26th, 27th, and 31st. According to reports of correspondents the condition of crops throughout the State continues very favorable. Wheat, oats and barley are nearly ripe and ready to harvest. Potatoes and other vegetable crops are reported to be doing well generally in all districts. Haying continues in all sections and a fine crop has been secured in excellent condition. The second crop of alfalfa is growing nicely, blooming in many localities and will be ready for cutting the coming week. In a few of the central districts there will be no second crop owing to lack of water. The condition of stock is reported as satisfactory. Fruit prospects continue promising.

*Week ending August 8, 1904*—The high day and night temperatures which prevailed during the past week were very favorable for the growth and development of all crops. The harvesting of the second crop of alfalfa is now progressing, and the yield is reported to be very good generally, in many localities much better than usual. Wheat, oats and barley are ripening rapidly, and cutting will be general over

the northern half of the State in a week or ten days. These crops are reported to be very fine this season in all parts of the State. The potato crop will also be much better than usual in the majority of districts. Green corn, tomatoes and new potatoes are in the market. Garden truck and fruits are doing well. Summer apples are ready for use, and blackberries are nearly ripe. Grasshoppers are reported to be very numerous in the lower end of Lovelock Valley, where they are doing more or less damage to the alfalfa. Irrigation water continues plentiful for crop needs over most of the State. Range feed is fairly good in all sections and stock of all kinds are in first-class condition.

*Week ending August 15, 1904*—The weather throughout the State continued hot and sultry during the week. Thunderstorms were general in the mountain districts, and a cloudburst is reported to have occurred in the southwestern portion of Nye County on Saturday, causing considerable damage to the Tonopah railroad track. The weather conditions were ideal for growth of crops, harvesting grain and cutting hay. The grain harvest began over the northern half of the State during the week, and the yields so far reported are much better than expected. The hay harvest continues with satisfactory results. Potatoes are very promising, although a little late in some of the eastern and northeastern districts. Garden truck and fruit are doing well generally. Bees are reported to be doing well and making honey fast. The mountain range feed was much improved by the showers during the week. Stock of all kinds are in the best of condition. The supply of irrigation water continues to hold out well in all sections.

*Week ending August 22, 1904*—Warm and generally cloudy weather prevailed during the week, with scattered thunder showers on the 16th, 17th and 18th. Light frost occurred in a few localities over the northern and western sections on the mornings of the 20th and 21st, but no damage resulted. The harvesting of grain is progressing over the northern half of the State, and the yield is reported good in the majority of districts. Haying is nearing completion and the crop is one of the best in years. Potatoes and garden truck are doing well. Fruit prospects continue excellent. The range feed remains good in most districts, and cattle are looking well.

*Week ending August 29, 1904*—The weather during the week has been generally cloudy with frequent thunder showers over the greater part of the State. Excessive precipitation occurred over portions of Elko, White Pine and Esmeralda Counties the latter part of the week, causing some damage to grain in the shock and cut hay lying in the fields. Considerable damage was done to the roadbeds of the Tonopah and Carson and Colorado railroads by cloudbursts and wash-outs on the 27th and 28th. On the whole the weather conditions during the week have been very favorable to growing crops. In the western and southern portions of the State the grain is about all harvested and a great deal of it threshed, with average yields generally. Showers during the latter part of the week have interfered with the harvesting of hay and grain in the eastern part of the State. The second crop of alfalfa is practically all in stack, and prospects are favorable for a third crop in many localities over the northern half of the State. Reports of correspondents indicate that corn, potatoes and garden truck are looking well and maturing nicely in all districts. Prospects are favorable for good winter range feed all over the State. Pasturage was much improved by the showers of the past two weeks, and is in good condition, with stock of all kinds doing well. The apple crop is being shipped to market. Plums ripe and fine.



## CLIMATOLOGICAL DATA FOR AUGUST, 1904.

Stations.	Counties.	Elevation (feet)	Length of record (years)	Temperature (degrees Fahrenheit).							Precipitation (inches)					Sky					Observer
				Mean	Departure from the normal.	Highest.	Date.	Lowest.	Date	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted)	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.	Prevailing direction of wind.		
Northern Section.																					
Battle Mountain-1.	Lander	1,511	34	75.6	+0.9	101	11	40	23	55	T	0.12	T	0.0	0	8	19	1	Agent So. Pacific Co. Agent So. Pacific Co. Agent So. Pacific Co. W. T. Crane C. H. Sproule		
Beowawe-3.	Eureka	4,695	34	61.1		96	1	45	19		1.00	+0.88	1.00	0.0	1	18	2	11			
Carlin-3	Elko	4,897	31	72.2	+2.8	98	7	40	21					0.0		17	8	6			
Crane's Ranch†	Elko	5,350	17								1.27	+1.00	0.40	0.0	8	15	7	9			
Elko-1	Elko	5,063	34	68.2	-1.2	102	3	38	22	53	0.95	+0.79	0.50	0.0	3	18	8	5			
Fenelon	Elko	6,128	17																Agent So. Pacific Co. Agent So. Pacific Co. Agent So. Pacific Co. Agent So. Pacific Co. Miss Jennie Williams		
Golconda-3	Humboldt	4,392	26								0.60	+0.55	0.25	0.0	3	24	5	2			
Halleck-3	Elko	5,229	32								0.30	+0.13	0.30	0.0	1	19	9	3			
Humboldt-1	Humboldt	4,236	33																		
Lee	Elko		6																		
Lovelock-1	Humboldt	3,977	13	73.6	-4.9	102	4	40	21	47	0.00	-0.00	0.00	0.0	0	29	2	0	Agent So. Pacific Co. Agent So. Pacific Co. Agent So. Pacific Co. F. M. Payne Agent So. Pacific Co.		
Mill City-3	Humboldt	4,225	16								0.40	+0.12	0.40	0.0	1	7	8	16			
Palisade-1	Eureka	4,821	23	68.6	-4.4	98	8	36	26	53	0.44	+0.10	0.30	0.0	3	29	0	2			
Quinn River Ranch-1	Humboldt	4,850	3																		
Tecoma-1	Elko	4,812	27	65.2		102	6	22	20	57	1.10	+0.96	0.33	0.0	7	14	5	12			
Toano-3.	Elko	5,975	35	73.4	+0.9	94	3	49	1		0.40	+0.19	0.22	0.0	2	22	4	5	Agent So. Pacific Co. Agent So. Pacific Co. U. S. Weather Bureau A. H. Wiseman		
Wells-3	Elko	5,623	33	67.5	-1.3	92	5	58	16		0.00	-0.22	0.00	0.0	0	26	0	5			
Winnemucca-1	Humboldt	4,432	26	70.1	-0.5	95	7	37	21	46	0.54	+0.16	0.41	0.0	7	17	7	7			
Wood-1	Elko	6,000	5																		
	Means			69.4	-1.2						0.54	+0.40		0.0	3	19	6	6			
Ely-1	White Pine	6,000	17	66.2	+1.7	92	5	39	22	44	2.53	+1.38	1.05	0.0	15	10	3	18	D. S. Dickerson Mrs. J. F. Beck		
Hamilton-1	White Pine	7,977	4																		
	Means			66.2	+1.7						2.53	+1.38		0.0	15	10	3	18			
Central Section.																					
Austin-1	Lander	6,594	16	67.8	-1.3	88	8	46	22	35	1.13	+0.67	0.36	0.0	9	7	0	24	H. W. Dyer Geo. L. Broy Miss Bessie Potts		
Eureka-1	Eureka	6,990	2	65.5		99	6	30	27	60	3.40		0.80	0.0	6	14	8	9			
Potts-1	Nye	6,826	12	66.2	-9.9	99	8	31	21	48	1.96	+1.33	1.00	0.0	6	2	12	17			
	Means			66.5	-5.6						2.16	+1.00		0.0	7	8	7	16			
Carson City-2	Ormsby	4,600	25	68.4	+1.6	94	4	39	21	44	0.22	+0.09	0.17	0.0	3	17	11	3	C. W. Friend U. S. Weather Bureau Mrs. Ida Dolf D. Couillard Mrs. Ross Lewers		
Carson City (W. B.)-1	Ormsby	4,720	15	68.9	+2.1	92	7	44	21	39	0.17	+0.04	0.10	0.0	3	13	11	7			
Fallon-1	Churchill		1																		
Glenbrook	Douglas	6,282									0.05		0.05	0.0	1						
Lewers' Ranch-1	Washoe	5,200	17																		
Martin's Ranch-1	Douglas	4,830	6	73.4		103	7	38	30	55	0.03		0.03	0.0	1	17	11	3	Mrs. J. H. Martin S. B. Doten J. H. Harcourt Agent So. Pacific Co.		
Reno-1.	Washoe	4,484	34	70.2	-0.2	95	6	44	21	40	0.29	+0.23	0.14	0.0	5	12	18	1			
Wabuska-1	Lyon	4,347	2	69.7		97	9	39	29	47	1.20		1.00	0.0	3	7	20	4			
Wadsworth-1	Washoe	4,077	33		-0.8	101	8	45	21	46	0.28	+0.10	0.25	0.0	2	23	4	4			
	Means			71.3	+0.7						0.32	+0.12		0.0	3	15	12	4			
Southern Section.																					
Belmont-1	Nye	8,132	13	64.4	-2.6	85	6	44	27	36	3.39	+2.61	0.98	0.0	13	1	14	16	W. N. Granger C. H. Smith Bradford Dean A. D. Campbell T. G. Watterson		
Caliente-1	Lincoln																				
Candelaria-1	Esmeralda	5,783	15	69.4	-4.6	90	7	54	23	30	6.05	+5.70	1.50	0.0	8	4	11	16			
Geyser-1.	Lincoln			66.0		96	6	36	22	51	3.09		1.10	0.0	9	4	18	9			
Hawthorne-1	Esmeralda	4,569	17	76.4	+0.3	98	23	53	22	45	1.70	+1.25	1.25	0.0	3	12	1	18			
McAfee's Ranch-1	Esmeralda	4,835	1	69.6		95	7	41	17	48	1.63		1.00	0.0	5	8	20	3	G. A. McAfee Jas. B. Gilmore Wm. Oothout, Jr. A. A. Carman Agent So. Pacific Co.		
Morey-1	Nye	7,384	1	70.0		97	6	46	21	43	2.86		0.55	0.0	12	4	27	0			
Palmetto-1.	Esmeralda	6,500	15	64.9	-0.5	90	6	42	30	39	6.95	+5.45	1.47	0.0	15	8	6	17			
Pioche-1	Lincoln	6,100		68.8		103	5	34	22	56	2.07		0.72	0.0	13	7	7	17			
Sodaville-1.	Esmeralda	4,665	6	76.3		105	7	51	28	42	3.69		1.86	0.0	6	7	10	14			
	Means			69.5	-1.6						3.49	+3.75		0.0	9	6	13	12	s		
State Means				68.6	-1.2						1.81	+1.33		0.0	7	12	8	11			
Miscellaneous.																					
Modena (Utah)-1	Iron	5,470	4	70.6		94	6	44	22	38	2.52		0.68	0.0	11	4	21	6	U. S. Weather Bureau U. S. Weather Bureau		
Independence (Cal.)-1	Inyo	3,721	8	78.0		95	7	57	29	33	0.07		0.07	0.0	1	13	15	3			
Tamarack (Cal.)											2.51		0.52	0.0	12	22	9	0	William Bennett F. R. Williams C. J. Gepper J. U. Haley Al. Taylor		
Donner (Cal.)	Nevada	6,095									0.14		0.14	0.0	1	19	12	0			
Independence Lake (Cal.)	Sierra																				
Tahoe (Cal.)	Placer	6,252																			
Lundy (Cal.)	Mono										0.08		0.08	0.8	1						

REFERENCES: 1, Weather Bureau maximum and minimum thermometers in use; 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed before the name of a station, or against the data in the body of the form, indicates the number of days missing from the record; for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

\* Not considered in computing State or district means.

† Postoffice—Elko. † Postoffice—Franktown. § Postoffice—Gardnerville. ¶ Postoffice—Amos.

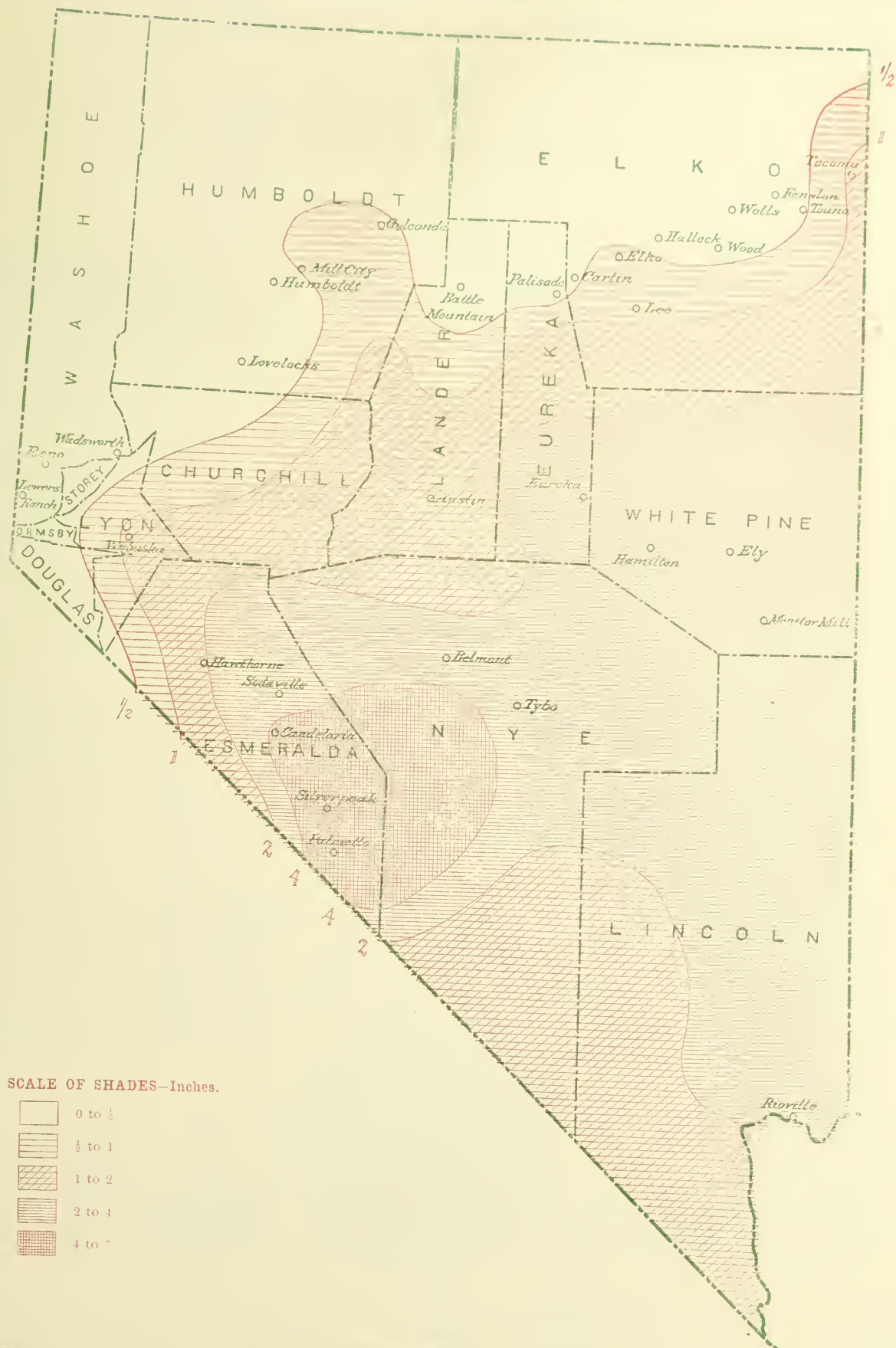


DAILY MAXIMUM AND MINIMUM TEMPERATURES FOR AUGUST, 1904.

Stations.	Day of Month.																													Monthly Means.			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		30	31	
Austin.....	Max. 82	82	83	85	82	85	87	88	84	83	85	85	83	81	80	75	77	83	81	77	83	83	81	73	78	78	74	73	76	75	75	80.3	
Battle Mountain.....	Min. 56	57	54	63	64	62	61	60	56	58	61	53	58	57	55	57	55	56	55	53	53	49	46	48	52	55	56	51	50	50	50	55.3	
Belmont.....	Max. 80	90	89	84	100	101	102	102	100	100	100	99	100	104	100	100	100	102	102	101	100	100	100	95	98	95	98	100	100	99	99	98.1	
Belmont.....	Min. 51	56	45	42	55	65	65	68	65	53	50	60	60	65	60	60	50	52	52	52	52	50	40	40	45	40	45	50	55	50	55	53.1	
Caliente.....	Max. 78	83	79	72	81	85	82	85	80	81	81	81	78	72	74	78	71	71	73	79	79	79	85	87	89	85	80	77	73	72	73	77.2	
Caliente.....	Min. 51	53	53	56	54	62	56	53	62	51	55	53	53	53	54	51	51	53	51	45	52	52	52	52	48	44	44	47	48	47	49	51.6	
Candelaria.....	Max. 84	87	87	87	88	88	90	88	83	86	87	87	83	78	85	77	81	82	88	80	85	85	76	74	77	80	76	78	79	78	77	82.4	
Carson City.....	Min. 61	59	64	67	62	63	70	66	63	63	62	63	56	56	63	60	60	59	60	61	55	55	54	54	54	56	56	54	54	54	54	56.5	
Carson City (W. B.).....	Max. 83	87	92	94	90	92	94	90	87	86	88	88	81	62	62	60	88	88	90	83	81	83	83	72	81	82	84	78	79	78	82	85.9	
Carson City (W. B.).....	Min. 48	49	48	50	52	52	56	57	62	50	46	48	51	62	58	50	50	52	47	51	39	40	55	50	51	51	46	44	44	40	52	51.0	
Elko.....	Max. 82	86	89	92	90	91	92	89	85	84	87	88	87	88	87	82	82	88	81	88	81	88	81	73	81	82	82	76	77	78	79	84.4	
Elko.....	Min. 60	50	52	54	55	54	57	59	63	54	48	49	55	63	62	58	52	56	51	53	44	46	56	50	51	53	53	50	48	46	53	53.4	
Ely.....	Max. 98	99	102	96	93	96	95	96	98	98	99	99	97	93	93	93	90	92	90	89	86	90	85	83	84	80	83	84	80	79	78	90.5	
Ely.....	Min. 47	49	51	48	44	47	47	45	45	54	53	49	54	52	51	48	47	49	40	41	44	38	38	44	43	44	43	44	41	44	41	46.5	
Eureka.....	Max. 87	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88.1	
Eureka.....	Min. 50	56	58	52	51	52	50	58	52	54	53	54	55	55	52	49	49	53	48	40	44	39	41	72	75	76	75	50	49	49	51	50.3	
Fallon.....	Max. 89	89	89	85	89	89	92	85	91	96	85	85	84	93	90	85	90	84	91	88	88	88	70	75	81	85	70	68	75	90	85	85.6	
Fallon.....	Min. 54	52	50	43	51	54	45	53	51	52	42	56	40	48	45	40	51	43	49	42	40	35	35	51	51	50	30	30	43	30	50	45.4	
Geyser.....	Max. 89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89.5	
Geyser.....	Min. 43	44	47	42	47	45	52	50	45	46	53	52	57	49	46	50	47	46	45	44	40	36	42	45	49	50	51	49	45	40	41	46.4	
Hamilton.....	Max. 89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89.5	
Hamilton.....	Min. 43	44	47	42	47	45	52	50	45	46	53	52	57	49	46	50	47	46	45	44	40	36	42	45	49	50	51	49	45	40	41	46.4	
Humboldt.....	Max. 89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89.5	
Humboldt.....	Min. 43	44	47	42	47	45	52	50	45	46	53	52	57	49	46	50	47	46	45	44	40	36	42	45	49	50	51	49	45	40	41	46.4	
Hawthorne.....	Max. 89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89.5	
Hawthorne.....	Min. 43	44	47	42	47	45	52	50	45	46	53	52	57	49	46	50	47	46	45	44	40	36	42	45	49	50	51	49	45	40	41	46.4	
Lewers' Ranch.....	Max. 89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89.5	
Lewers' Ranch.....	Min. 43	44	47	42	47	45	52	50	45	46	53	52	57	49	46	50	47	46	45	44	40	36	42	45	49	50	51	49	45	40	41	46.4	
Lovelock.....	Max. 90	95	99	102	101	96	101	101	93	100	101	98	99	97	90	94	96	97	96	97	85	85	82	86	88	87	86	87	88	85	87	88	93.3
Lovelock.....	Min. 35	39	62	60	56	61	59	58	66	62	58	49	62	64	60	58	55	53	52	51	40	55	48	48	49	50	48	50	47	42	44	44	53.9
Martin's Ranch.....	Max. 90	96	96	97	91	102	103	99	101	95	98	102	98	92	94	92	94	95	101	97	89	97	89	97	91	91	91	92	86	92	86	90	94.3
Martin's Ranch.....	Min. 59	62	48	50	50	55	56	61	51	47	47	87	87	86	59	62	59	65	65	65	40	42	56	50	49	53	53	50	48	38	53	52.4	
McAfee's Ranch.....	Max. 85	89	91	92	85	91	95	92	86	90	89	87	87	87	89	89	89	91	92	93	93	84	88	83	83	83	83	85	86	84	85	87.3	
McAfee's Ranch.....	Min. 58	45	51	55	52	51	50	60	57	51	50	52	54	55	49	50	44	60	52	49	55	45	46	56	54	57	58	56	48	42	42	52.0	
Morey.....	Max. 92	91	90	85	96	97	88	92	91	91	92	92	92	92	86	80	74	86	86	83	84	82	84	82	81	80	84	84	84	85	85	85.3	
Morey.....	Min. 67	64	54	53	39	63	61	52	52	51	53	54	49	52	54	54	54	50	57	54	46	49	48	48	49	49	62	65	46	53	52	62	54.8
Palmetto.....	Max. 78	82	82	82	81	81	88	88	85	83	84	83	78	75	80	82	78	85	85	85	78	80	65	65	74	76	73	72	77	81	78	81	80.0
Palmetto.....	Min. 50	45	52	51	51	51	62	55	50	50	50	53	52	52	51	48	46	48	50	48	45	45	45	45	45	52	52	52	44	42	42	45	49.8
Palisade.....	Max. 92	92	90	91	93	93	94	98	96	92	93	95	92	94	92	94	95	92	92	88	87	88	87	88	89	89	89	89	87	88	87	86	89.4
Palisade.....	Min. 47	46	48	48	47	48	50	49	50	53	53	54	57	51	54	57	50	54	45	50	45	42	37	45	45	45	45	45	40	40	40	42	47.8
Pioche.....	Max. 95	92	97	102	103	102	100	98	88	89	92	95	89	93	96	95	89	91	95	96	90	90	75	84	88	91	80	89	90	87	87	91.9	
Pioche																																	



# TOTAL PRECIPITATION FOR AUGUST, 1904





## DAILY PRECIPITATION FOR AUGUST, 1904.

Stations.	Day of Month.																															Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
<i>Northern Section.</i>																																
Battle Mountain																																
Beowawe																																
Carlin																																
Crane's Ranch																																
Elko																																
Fallon																																
Golconda																																
Halleck																																
Humboldt																																
Lee																																
Lovelock																																
Mill City																																
Palisade																																
Quinn River Ranch																																
Tecoma																																
Toano																																
Wells																																
Winnemucca																																
Wood																																
<i>Eastern Section.</i>																																
Ely																																
Hamilton																																
<i>Central Section.</i>																																
Austin																																
Eureka																																
Potts																																
<i>Western Section.</i>																																
Carson City	.01																															
Carson City (W. B.)	.01																															
Fallon																																
Glenbrook																																
Lewers' Ranch																																
Martin's Ranch																																
Reno																																
Wabuska																																
Wadsworth																																
<i>Southern Section.</i>																																
Belmont		.16					.05	.01	.15		.11	.08																				
Caliente				.11																												
Candelaria				.05	.35			.04		.20	.05	.23	1.00		.85																	
Geyser																																
Hawthorne																																
McAfee's Ranch	.25																															
Morey		.12	.25	.15	.15	.12	.12	.05	.28	.31																						
Palmetto	.62	.12	.25	.18	.15	.12	.12	.08	.72	.05	.10	.02																				
Pioche																																
Sodaville																																
<i>Miscellaneous.</i>																																
Modena (Utah)																																
Independence (Cal.)												.48			.09																	
Tamarack (Cal.)																																
Donner (Cal.)																																
Independence Lake (Cal.)																																
Tahoe (Cal.)																																
Lundy (Cal.)																																
Bridgeport (Cal.)	.08																															

T indicates trace. \* Precipitation included in that of following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, -  - ANDREW MAUTE, SUPT.

1904



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR SEPTEMBER, 1904.

## NEVADA SECTION

OF THE

# CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU

IN COÖPERATION WITH THE

## NEVADA STATE WEATHER SERVICE

(CHARLES W. FRIEND, Director.)

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. H. SMITH,

SECTION DIRECTOR,

CARSON CITY, NEVADA.

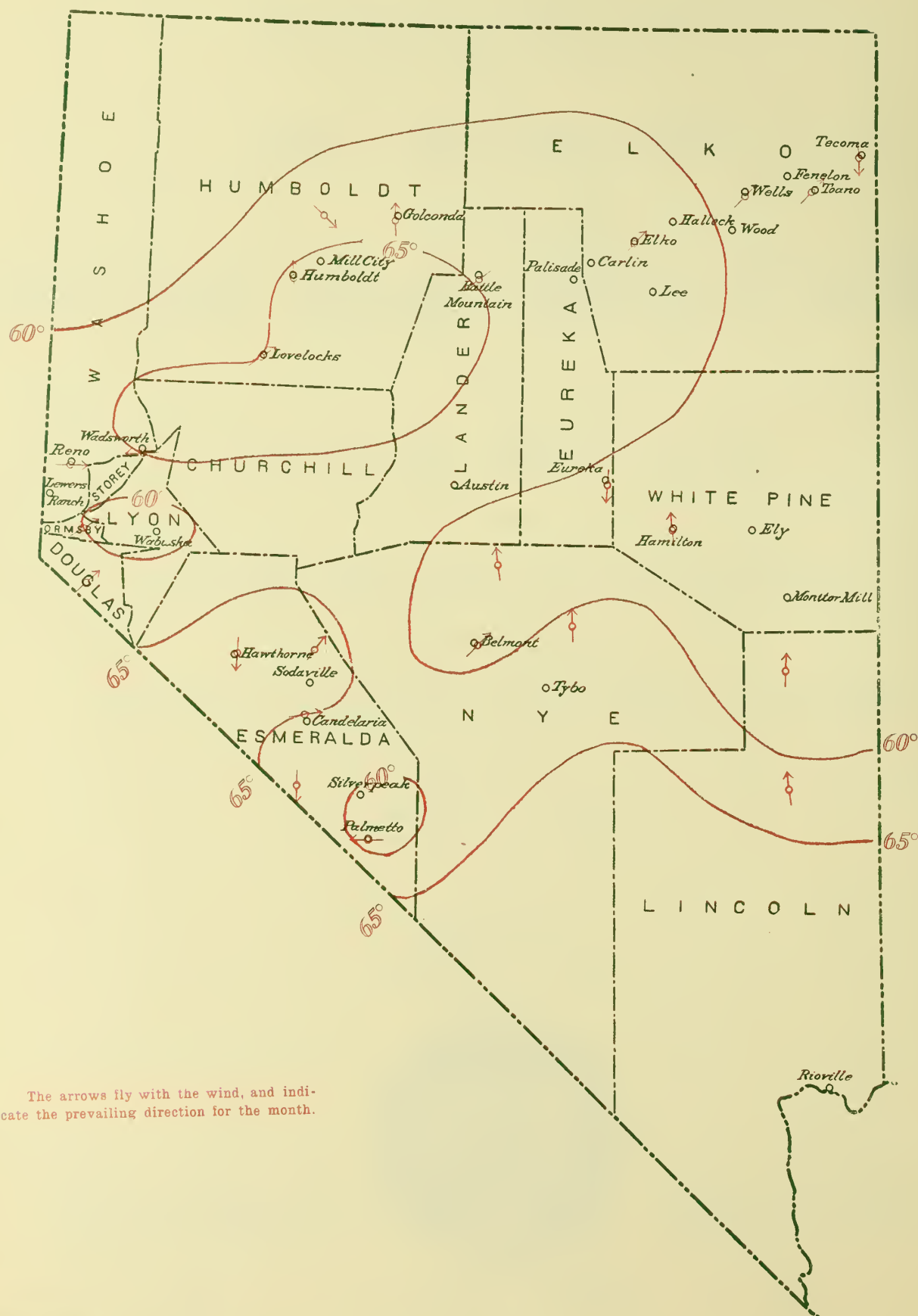


CARSON CITY, NEV.:  
WEATHER BUREAU OFFICE.

Nov. 5, 1904



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR SEPTEMBER, 1904.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## NEVADA SECTION.

J. H. SMITH, Section Director,

CARSON CITY, NEVADA.

VOL. XVIII.

CARSON CITY, NEVADA

No. 9.

## CLIMATOLOGY OF THE MONTH.

## Atmospheric Pressure—Inches and Hundredths.

The mean atmospheric pressure for the State, reduced to sea level, as determined from the records of the United States Weather Bureau stations at Carson City and Winnemucca (Nevada), Modena (Utah), and Independence (California), was 29.96 inches.

The highest pressure, 30.16 inches, was recorded at Winnemucca on the 7th and at Carson City, on the 28th, and the lowest, 29.66 inches, at Independence, on the 22d.

The absolute range of pressure for the State was 0.50 of an inch.

## Temperature—Degrees Fahrenheit.

The mean temperature for the State was 60.4, which is about 1 below normal, and about the same as the mean for the corresponding month in 1903.

By sections, the means were as follows: Northern, 59.7; eastern, 56.6; central, 58.8; western, 61.6; southern, 61.8.

The highest monthly mean, 68.3, was recorded at Wadsworth, Washoe County.

The lowest monthly mean, 54.3, was recorded at Halleck, Elko County.

The highest temperature, 103, was recorded at Battle Mountain, Lander County, on the 8th.

The lowest temperature, 19, was recorded at Wabuska, Lyon County, on the 28th.

The greatest local daily range of temperature, 64, was recorded at Battle Mountain, Lander County, on the 7th.

## Precipitation—Inches and Hundredths.

The average precipitation for the State was 0.93 of an inch, which is 0.79 of an inch above normal, and 0.75 of an inch in excess of the average for the corresponding month of 1903.

By sections, the averages were as follows: Northern, 0.97 of an inch; eastern, 0.12 of an inch; central, 1.47 inches; western, 0.60 of an inch; southern, 1.10 inches.

The greatest monthly amount, 3.03 inches, was recorded at Austin, Lander County, and the least, 0.02 of an inch at Ely, White Pine County.

The greatest amount recorded in any twenty-four consecutive hours was 1.17 inches at Pioche, Lincoln County, on the 26th.

## Relative Humidity.

Carson City—8 a. m., 73 per cent; 8 p. m., 36 per cent; monthly mean, 54 per cent.

Winnemucca—8 a. m., 66 per cent; 8 p. m., 42 per cent; monthly mean, 55 per cent.

Modena (Utah)—8 a. m., 65 per cent; 8 p. m., 30 per cent; monthly mean, 48 per cent.

## Wind and Weather.

The prevailing direction of the wind was from the south.

The total movement of the wind at Carson City was 3,627 miles; Winnemucca, 4,352 miles; Modena (Utah), 7,815 miles; Independence (California), 5,334 miles.

The maximum velocity at Carson City was 38 miles per hour, from the southwest, on the 21st; Winnemucca, 37 miles per hour, from the west, on the 21st; Modena, 48 miles per hour, from the west, on the 22d, and 31 miles per hour, from the southeast, at Independence, on the 23d.

The average number of clear days was 17; partly cloudy, 5; cloudy, 8; days with .01 of an inch or more of precipitation, 4.

## COMPARATIVE TEMPERATURE AND PRECIPITATION DATA FOR SEPTEMBER DURING THE PAST SIXTEEN YEARS.

Year.	Mean.	Temperature Highest.	Lowest.	Average Precipitation Inches and 100ths
1889	61.7	110	13	0.55
1890	64.2	110	18	0.81
1891	58.9	98	5	0.94
1892	62.8	109	15	0.09
1893	57.5	99	16	0.51
1894	58.4	96	10	0.35
1895	59.9	106	0	0.27
1896	58.3	102	15	0.35
1897	60.4	105	21	0.16
1898	61.1	97	18	0.20
1899	63.0	98	24	0.05
1900	56.1	99	17	0.30
1901	56.2	95	20	0.39
1902	61.7	113	10	0.21
1903	60.2	114	17	0.18
1904	60.4	103	19	0.93

## MISCELLANEOUS PHENOMENA.

(Stations and Dates of Occurrence.)

*Lunar Halos*—Carson City, 20th.

*Dense Fog*—Belmont, 27th; Palmetto, 24th, 25th.

*Light Smoke*—Belmont, 6th, 7th, 8th, 9th, 10th, 11th; Geyser, 11th; Wood, 9th, 10th, 11th, 12th, 13th.

*Dense Smoke*—Reno, 10th, 11th, 12th, 13th.

*Hail*—Belmont, 25th; Potts, 26th, 27th; Crane's Ranch, 26th; Palmetto, 26th; Ely, 26th; Hamilton, 23d, 25th, 26th, 27th, 29th; Lewers' Ranch, 22d, 23d.

*Thunderstorms*—Belmont, 12th, 16th, 25th; Carson City, 18th; Halleck, 6th; Lewers' Ranch, 18th; Morey, 15th; Palmetto, 12th, 13th, 14th, 26th; Potts, 14th, 15th, 17th, 20th, 22d; Reno, 17th, 18th; Sodaville, 25th; Winnemucca, 17th, 20th, 21st.

*Killing Frost*—Ely, 26th; Eureka, 27th; Geyser, 23d, 26th; Halleck, 7th, 14th, 26th, 27th, 28th, 29th; Hamilton, 26th; Martin's Ranch, 28th; Palmetto, 27th, 28th; Pioche,



23d; Potts, 26th; San Jacinto, 10th, 11th, 12th, 13th, 14th, 15th; Tecoma, 2d.

#### OBSERVERS' REMARKS.

LEWERS' RANCH—No killing frost during the month. First snow on high mountains during night of the 22d of September.

MRS. ROSS LEWERS.

McAFEE'S RANCH (near Dyer)—The continuous rains toward the latter part of the month have caused much damage to hay, grain and vegetables. Outside feed fairly abundant; stock in good condition.

G. A. McAFEE.

GEYSER—The latter part of the month has been very windy and disagreeable. Grain has been threshed, with a light yield.

A. D. CAMPBELL.

REXO—Air thick with smoke of forest fires on the 9th, 10th, 11th, 12th and 13th. Vigorous thunder showers on the 17th, accompanied by brilliant lightning and very loud thunder.

S. B. DOTEN.

#### WEATHER AND CROPS.

*Week ending September 5, 1904*—Typical autumn weather prevailed throughout the State during the week. Temperatures averaged above normal, with clear warm days and cool nights. Light frost occurred in elevated localities Friday morning. There were no rains or high winds reported during the week. Conditions have been highly favorable for the maturing of outstanding crops, and the harvesting of hay and grain, which is practically finished over the greater part of the State. The second crop of alfalfa is about all in stack and prospects are favorable for an abundance of alfalfa fall pasturage. Reports indicate that potatoes and other late crops are doing well and maturing nicely. Range prospects continue good. As a rule stock of all kinds are reported to be in a very satisfactory condition. Threshing continues in the western portion, with yields generally above average. Irrigation water is still plentiful in most districts for maturing late crops.

*Week ending September 12, 1904*—Warm and generally clear weather prevailed throughout the State during the past week. Temperatures averaged above normal, with excessive sunshine on a few days. No rain or frost during the week. The weather conditions were exceptionally favorable for harvesting operations and the maturing of corn, potatoes, fruits and vegetables. The harvesting of hay and grain is drawing to a close, except in Elko and White Pine Counties, where the work is progressing rapidly. In the western division of the State threshing and hay baling are in progress. A fine fourth crop of alfalfa is being cut in Lincoln County. Potatoes are doing well and a fine crop is expected in all districts. Apples, pears and plums are reported to be better than usual and good crops are being gathered. Garden truck is doing well and maturing nicely. Pasturage is good and stock of all kinds are doing well. Irrigation water is reported to be quite plentiful in most districts.

The remainder of the month was generally cloudy, with frequent thunder showers over the greater part of the State. In a few localities grain in the shock and cut hay in the

fields were damaged considerably by heavy rains. Farm work was practically completed by the close of the month, with the exception of threshing and baling hay. Apples and other late fruits ripened under favorable conditions and were of superior quality in nearly all sections. Irrigation water was quite plentiful in all districts for maturing late crops.

#### FORECASTING THE WEATHER.

The American people like to be humbugged. Next to the gold brick and green goods artist, the long range weather forecaster is the biggest fake on the market. There is not a man living to-day who can give the slightest clue as to whether next July will be wet or dry, abnormally hot, or unusually cold, and whoever attempts to do so is simply playing on the credulity of the public. The average fakir's long range forecasts consist of a series of violent storms, tornadoes, hot waves, cold spells and hailstorms, which, if one-fourth of them arrived, would make all Iowa a howling wilderness in a short quarter of an hour. Even the milder tempered gentry have the happy faculty of making such an indefinite forecast that it can not be applied to any locality or any date. There is not a farmer in Iowa who would not be absolutely ruined if he planned his work for one season in accordance with the predictions of these false prophets. He would have to contend with frosts up to the first of June and beginning again in August, floods during the entire season, weather that would scorch vegetation like a blast from a furnace and a sharp cold spell every third day.

To be sure these forecasts hit it once in a while. One who is guessing all the time can not fail occasionally to hit it. His guess is worse than useless if he does not succeed at least every other time, and a great many of them do not do this good. Neither of the long range prophets will explain to the scientific world the basis upon which he makes his forecasts, and this refusal of itself would justify the charge of fraud and chicanery if there were no other thing against them.

The officials of the United States Weather Bureau, on the other hand, take the public into their confidence. They openly admit that there is much about the science of forecasting that they do not know and may never learn. They do not claim absolute accuracy for their forecasts, but over 80 per cent of them are verified. Predictions are usually made for only thirty-six hours in advance, and any one conversant with the facts knows that at present that is as far ahead as our knowledge will warrant any one in predicting. The day may come when scientists may be able to tell something about the coming seasons by reference to the peculiar action of sun spots, but this problem is just being taken up and several years must elapse before anything of moment can be announced. The most these scientists hope to do is to foretell whether a season will be unusually hot, or abnormally cold, whether the rains will be abundant, or drought prevail. Detailed forecasts for each day, months in advance, will probably never be attempted, as that feature is at present believed to be quite infeasible. In the meantime don't be running after false gods.—*Afton (Iowa) Star-Enterprise*.



## CLIMATOLOGICAL DATA FOR SEPTEMBER, 1904.

Stations.	Counties.	Elevation (feet).	Length of record (years).	Temperature (degrees Fahrenheit)							Precipitation (inches)					Sky					Observer.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snow fall (inches).	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.	Prevailing direction of wind.		
Northern Section.																					
Battle Mountain-1	Lander	1,511	34	65.2	+2.4	103	8	36	6	64	1.17	+0.93	0.60	0.0	5	21	0	9	SW	Agent So. Pacific Co.	
Beowawe-3	Eureka	4,695	34	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0	17	1	9	S	Agent So. Pacific Co.		
Carlin-3	Elko	4,897	34	57.7	+0.7	92	8	40	28	.....	.....	.....	.....	0.0	15	4	11	W	Agent So. Pacific Co.		
Crane's Ranch†	Elko	5,350	17	.....	.....	.....	.....	.....	.....	.....	1.50	+1.18	0.61	0.0	7	20	4	6	W	W. T. Crane	
Elko-1	Elko	5,063	34	59.3	+2.3	89	6	31	27	16	1.79	+1.59	0.54	0.0	5	18	12	0	SW	C. H. Sproule	
Feuclon	Elko	6,128	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Agent So. Pacific Co.	
Golconda-3.	Humboldt	4,392	26	.....	.....	.....	.....	.....	.....	.....	1.00	+0.71	0.40	0.0	4	23	2	5	S	Agent So. Pacific Co.	
Halleck-3	Elko	5,229	32	54.3	-2.7	78	3	32	28	.....	1.57	+1.45	0.65	0.0	6	18	8	1	.....	Agent So. Pacific Co.	
Humboldt-1	Humboldt	4,236	33	64.9	+2.8	94	8	39	28	43	0.55	+0.39	0.30	0.0	3	21	4	5	S	Agent So. Pacific Co.	
Lee	Elko	.....	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Miss Jennie Williams	
Lovelock-1	Humboldt	3,977	13	65.1	-0.8	97	5	38	28	.....	1.22	+0.99	0.62	0.0	3	24	2	4	SW	Agent So. Pacific Co.	
Mill City-3	Humboldt	4,225	16	.....	.....	.....	.....	.....	.....	.....	0.40	+0.20	0.40	0.0	1	18	0	12	.....	Agent So. Pacific Co.	
Palisade-1	Eureka	4,821	23	59.8	-1.5	96	8	30	24	59	1.28	+0.94	1.17	0.0	2	28	0	2	.....	Agent So. Pacific Co.	
Quinn River Ranch-1	Humboldt	4,850	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. M. Payne	
San Jacinto	Elko	.....	.....	57.8	.....	95	6	24	11	58	0.24	.....	0.08	0.0	4	17	6	7	S	W. C. Betteridge, Jr.	
Tecoma-1	Elko	4,812	27	56.6	-5.7	93	7	25	28	60	0.63	+0.33	0.33	0.0	3	24	1	5	N	Agent So. Pacific Co.	
Toano-3	Elko	5,975	35	.....	.....	88	5	39	27	.....	0.25	+0.04	0.12	0.0	3	14	6	10	SW	Agent So. Pacific Co.	
Wells-3	Elko	5,623	33	55.8	-3.5	84	4	34	28	.....	.....	.....	.....	0.0	20	0	10	SW	Agent So. Pacific Co.		
Winnemucca-1	Humboldt	4,432	26	61.2	+1.1	92	7	34	28	48	1.15	+0.82	0.50	0.0	9	16	5	9	NE	U. S. Weather Bureau	
Wood-1	Elko	6,000	5	59.0	.....	90	7	32	28	49	0.81	.....	0.28	0.0	5	15	10	5	.....	A. H. Wiseman	
Eastern Section.																					
Means	Means	.....	.....	59.7	-0.5	.....	.....	.....	.....	.....	0.97	+0.80	.....	0.0	4	19	4	7	SW	.....	
Ely-1	White Pine	6,000	17	58.2	+3.6	88	8	32	26	41	0.02	-0.54	0.02	0.0	1	.....	.....	.....	.....	D. S. Dickerson	
Hamilton-1	White Pine	7,977	4	54.9	.....	82	8	25	27	38	0.22	.....	0.12	0.0	2	17	8	5	S	Mrs. J. F. Beck	
Central Section.																					
Means	Means	.....	.....	56.6	+3.6	.....	.....	.....	.....	.....	0.12	-0.54	.....	0.0	1	17	8	5	S	.....	
eAustin-1	Lander	6,594	16	61.6	+1.0	83	8	35	28	30	3.03	+2.66	0.59	0.0	6	16	0	14	.....	H. W. Dyer	
Eureka-1.	Eureka	6,990	2	59.6	.....	90	8	30	27	44	0.11	.....	0.10	0.0	2	15	6	9	N	Geo. L. Broy	
Potts-1	Nye	6,826	12	55.2	-6.9	86	8	31	28	47	1.28	+1.20	0.50	2.0	7	8	10	12	S	Miss Bessie Potts	
Western Section.																					
Means	Means	.....	.....	58.8	-3.0	.....	.....	.....	.....	.....	1.47	+1.93	.....	0.7	5	13	5	12	S	.....	
Carson City-2	Ormsby	4,660	25	59.8	+0.3	90	4	30	28	48	0.21	-0.07	0.10	0.0	6	17	8	5	NW	C. W. Friend	
Carson City (W. B.)-1	Ormsby	4,720	15	60.4	+0.9	91	7	33	28	42	0.17	-0.11	0.10	0.0	5	15	6	9	SW	U. S. Weather Bureau	
Fallon-1	Churchill	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. Ida Dolf	
Lewers' Ranch-1	Douglas	6,282	.....	61.8	+0.6	91	4	34	24	41	1.74	+0.93	0.50	0.0	8	10	11	9	.....	Mrs. Ross Lewers	
Martin's Ranch-1	Washoe	5,200	17	63.6	+4.1	100	6	32	28	55	0.24	-0.04	0.14	0.0	2	15	6	9	SW	Mrs. J. H. Martin	
Reno-1	Washoe	4,484	34	61.8	+0.8	90	5	36	24	42	0.71	+0.55	0.20	0.0	8	17	7	6	W	S. B. Doten	
Wabuska-1	Lyon	4,347	2	55.6	.....	92	7	19	28	55	0.55	.....	0.20	0.0	4	16	3	11	.....	J. H. Harcourt	
Wadsworth-1	Washoe	4,077	33	68.3	+2.3	99	7	38	27	41	.....	.....	.....	0.0	6	22	1	7	E	Agent So. Pacific Co.	
Southern Section.																					
Means	Means	.....	.....	61.6	+1.5	.....	.....	.....	.....	.....	0.60	+0.25	.....	0.0	6	16	6	8	SW	.....	
Belmont-1	Nye	8,132	13	56.2	-1.6	82	8	31	26	30	1.98	+1.34	0.85	T	7	12	9	9	SW	W. N. Granger	
Caliente-1	Lincoln	.....	.....	66.5	.....	102	7	35	28	55	0.30	.....	0.30	0.0	1	21	0	9	.....	C. H. Smith	
Candelaria-1	Esmeralda	5,783	15	63.6	-1.1	88	8	37	27	25	.....	+0.86	0.97	T	5	14	6	10	W	Bradford Dean	
aGeyser-1	Lincoln	.....	.....	58.2	.....	91	8	27	26	52	0.34	.....	0.34	0.0	1	16	7	6	S	A. D. Campbell	
Hawthorne-1.	Esmeralda	4,569	17	66.2	+0.4	92	7	41	27	34	0.60	+0.37	0.30	0.0	3	15	5	10	N	T. G. Watterson	
McAfee's Ranch-1	Esmeralda	4,835	1	60.8	.....	92	9	33	28	52	1.03	.....	0.55	0.0	6	16	8	6	N	G. A. McAfee	
fMorey-1.	Nye	7,384	1	61.0	.....	93	8	30	26	39	0.60	.....	0.38	0.0	3	.....	.....	.....	.....	Jas. B. Gilmore	
Palmetto-1.	Esmeralda	6,500	15	57.1	-1.0	87	7	28	27	42	2.76	+2.26	0.91	0.0	5	14	8	8	E	Wm. Oothout, Jr.	
Pioche-1	Lincoln	6,100	.....	60.5	.....	99	9	27	27	56	0.59	.....	0.59	0.0	1	10	11	9	S	A. A. Carman	
Sodaville-1.	Esmeralda	4,665	6	67.6	.....	101	7	37	26	42	1.45	.....	0.90	0.0	4	17	3	10	SW	Agent So. Pacific Co.	
State Means	Means	.....	.....	61.8	-0.8	.....	.....	.....	.....	.....	1.10	+1.21	.....	T	3	15	6	9	S	.....	
Miscellaneous.																					
Means	Means	.....	.....	60.4	-0.7	.....	.....	.....	.....	.....	0.93	+0.79	.....	0.1	4	17	5	8	S	.....	
Modena (Utah)-1	Iron	5,470	4	60.7	.....	89	8	31	27	40	2.02	.....	1.78	0.0	5	14	15	1	W	U. S. Weather Bureau	
Independence (Cal.)-1	Inyo	3,721	8	69.1	.....	94	5	44	27	30	0.32	.....	0.17	0.0	4	17	7	6	NW	U. S. Weather Bureau	
Tamarack (Cal.)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.60	.....	1.03	32.0	14	.....	.....	.....	.....	William Bennett	

REFERENCES: 1. Weather Bureau maximum and minimum thermometers in use; 2. self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3. means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed before the name of a station, or against the data in the body of the form, indicates the number of days missing from the record: for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

\* Not considered in computing State or district means.

† Postoffice—Elko. ‡ Postoffice—Franktown. § Postoffice—Gardnerville. ¶ Postoffice—Amos.

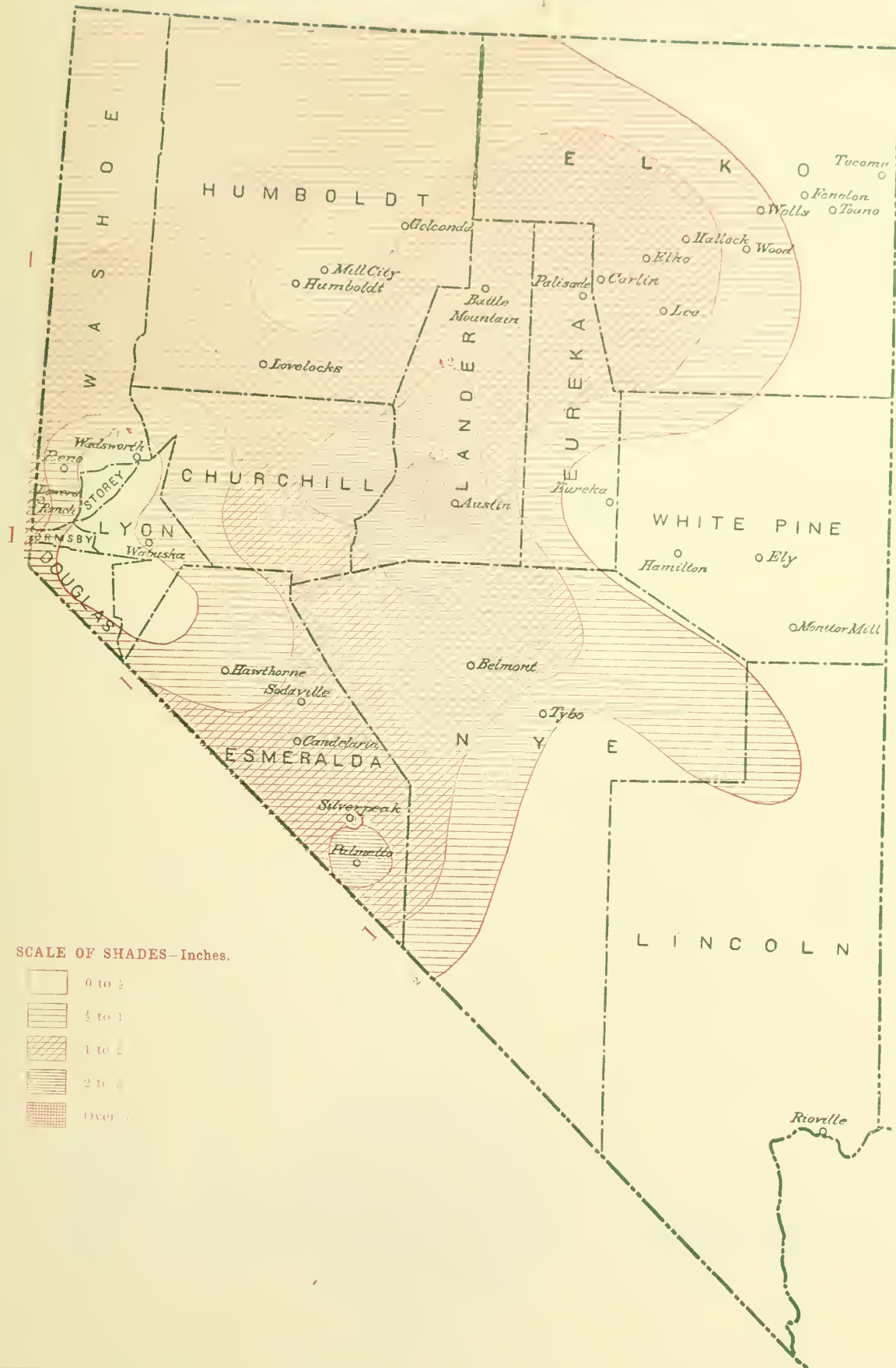


Stations.	Day of Month.																															Monthly means.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Austin	Max. 75	75	76	79	80	81	82	83	82	76	75	78	79	79	73	73	72	72	71	73	72	71	62	57	57				54	62	57	73.0	
Battle Mountain.	Min. 50	50	52	53	54	55	56	54	55	51	52	51	50	56	56	53	56	55	41	51	55	41	42	43	45	45	40	35	35	35	45	50.3	
Beckmont	Max. 98	42	45	45	40	36	102	103	102	100	100	96	98	98	98	95	98	95	40	45	45	40	40	40	40	45	40	38	36	36	45	89.2	
Bellmont	Min. 73	75	73	73	74	78	78	81	82	80	78	76	76	76	72	67	63	63	43	43	43	37	30	19	19	19	34	31	31	31	31	66.9	
Caliente	Max. 70	51	52	53	53	53	55	52	52	50	51	48	50	50	50	51	51	50	48	45	44	42	39	36	34	34	31	31	31	31	31	88.5	
Caliente	Min. 94	99	98	91	90	98	102	100	96	96	94	90	89	93	93	91	88	89	88	87	88	84	82	78	76	74	74	74	78	78	78	88.5	
Candelaria	Max. 46	49	44	51	48	46	47	48	48	45	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	41.5	
Candelaria	Min. 58	58	59	62	61	62	63	63	62	61	59	87	86	83	77	80	82	79	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
Carson City	Max. 43	43	41	41	47	46	47	46	46	47	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46
Carson City (W. B.)	Min. 82	84	88	88	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
Delko	Max. 76	76	77	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79
Ely	Min. 36	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
Eureka	Max. 78	77	81	81	83	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84
Eureka	Min. 44	41	46	46	44	47	43	50	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
Geyser	Max. 88	87	88	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86
Hamilton	Min. 80	82	85	87	85	87	87	90	91	90	88	86	84																				

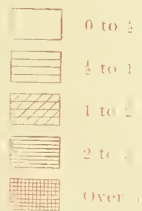
\*Extremes of temperature from readings of ordinary thermometer at 7 a. m., 2 p. m. and 9 p. m.



TOTAL PRECIPITATION FOR SEPTEMBER, 1904.



SCALE OF SHADES-Inches.





## DAILY PRECIPITATION FOR SEPTEMBER, 1904.

Stations.	Day of Month.																															Total.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Northern Section.																																		
Battle Mountain																						.05			.02	.60	.25			.25			1.17	
Beowawe																										.10	.70							
Carlin																	.10				.06				.61	.38	.15	.15	.05					
Crane's Ranch																	.50				.15			T	.54	.40	.20							
Elko																																		
Fenelon																																		
Golconda																																		
Halleck																																		
Humboldt																																		
Lee																																		
Lovelock																																		
Mill City																																		
Palisade																																		
Quinn River Ranch																																		
San Jacinto																		.07								.08	.05	.04	.10					
Tecoma																										.33	.20	.06						
Toano																																		
Wells																																		
Winnemucca																	.25	.20			.01	.20	.07		.14	.50	.04	.02			.03			
Wood																										.15	.28	.06						
Eastern Section.																																		
Ely																																		
Hamilton																																		
Central Section.																																		
Austin																																		
Eureka																																		
Potts														.01	T	T	T								.18	T	.01	T			.26			
Western Section.																																		
Carson City																																		
Carson City (W. B.)																																		
Fallon																																		
Lewers' Ranch																																		
Martin's Ranch																		*	.04	.03	T					.14	.50	.04						
Reno																			.10	T														
Wabuska																		.20	T		.09			*	.13	T	.14	.11						
Wadsworth																		.20			.10			T		.15	.10							
Southern Section.																																		
Belmont																	.41	T																
Caliente																																		
Candelaria													.30												*	.97	*	.30			*			
Geyser																																		
Hawthorne																																		
McAfee's Ranch																																		
Morey																																		
Palmetto																		.15						*		.38	.55	.04	.04					
Pioche																										.81	.65	.91	T			.59		
Sodaville																		T								.90	.15	.08						
Miscellaneous.																																		
Modena (Utah)																																		
Independence (Cal.)																										.08	.17	T	.01			.13		
Tamarack (Cal.)																										.90	.88	.46	.20			.04		

T indicates trace. \* Precipitation included in that of following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, -  - ANDREW MAUTE, SUP'T.

1904



551.05  
LINNE

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JANUARY, 1906.

NEVADA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU

IN COÖPERATION WITH THE

NEVADA STATE WEATHER SERVICE

(CHARLES W. FRIEND, Director.)

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU

BY

H. F. ALPS,

Acting Section Director,

RENO, NEVADA.

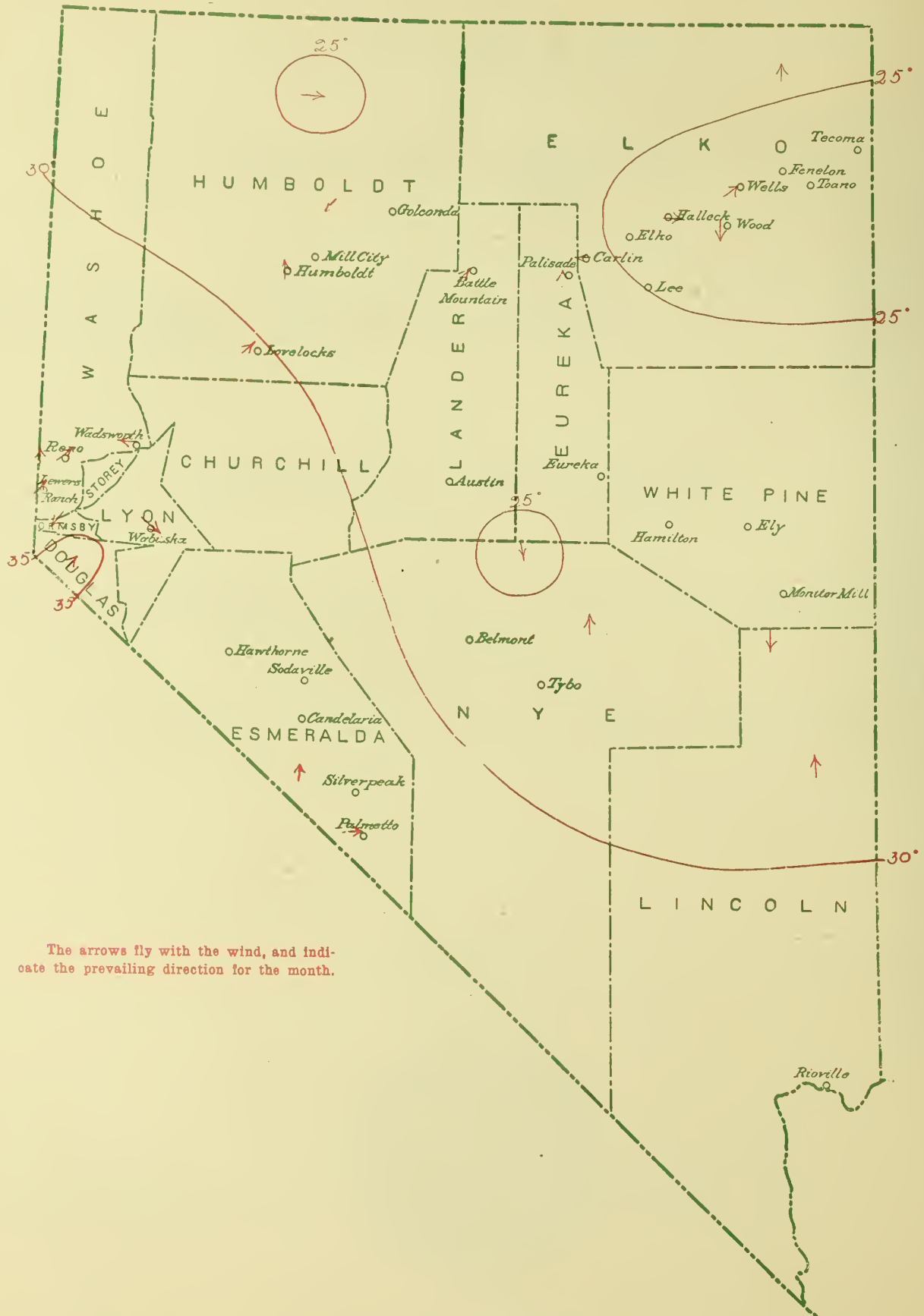


RENO, NEV.:  
WEATHER BUREAU OFFICE.

Feb. 28, 1906.



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR JANUARY, 1906.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE  
**CLIMATE AND CROP SERVICE**

OF THE

**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

**NEVADA SECTION,**

HENRY F. ALPS, Acting Section Director.

RENO, NEVADA.

VOL. XX.

RENO, NEVADA.

No. 1.

**CLIMATOLOGY OF THE MONTH.**

**Atmospheric Pressure.**

The mean pressure for the State, reduced to sea level, was 30.14 inches. The highest during the month was 30.66 inches at Winnemucca on the 7th, and the lowest was 29.31 inches at Winnemucca on the 19th.

**Temperature.**

The mean temperature for the State was 28.7°, which is 1.0° above the normal, and 5.8° lower than the mean for the corresponding month or 1905. The mean temperature for the northern section was 26.3°; for the central section, 26.0°; for the western section, 33.2°; and for the southern section, 29.2°. The highest monthly mean was 38.8° at Martin's Ranch, near Gardnerville, Douglas County. The lowest monthly mean was 22.2° at Clover Valley, Elko County, followed closely by 22.3° at Halleck, Elko County, and 22.6° at Potts, Nye County. The highest temperature was 66° at Wabuska, Lyon County, on the 18th. The lowest temperature was 15° below zero at Potts, Nye County, on the 2d and the 8th. The highest temperatures occurred during the last half of the month, except at Geyser, where the maximum occurred on the 7th. The lowest temperatures for the month occurred at about half of the stations on the 1st and 2d, and at the remainder from the 3d to the 9th, inclusive, except at McAfee's Ranch and Morey, the minimum occurring on the 27th at the former station and on the 21st at the latter. The absolute range of temperature for the State was 81°; the greatest local daily range was 56° at McAfee's Ranch, Esmeralda County, on the 27th.

**Precipitation.**

The average precipitation for the State was 2.31 inches, which is 0.70 inch above the normal, and 1.65 inches in excess of the average for the corresponding month of 1905. The average precipitation for the northern section was 1.95 inches; for the central section, 0.56 inch; for the western section, 2.69 inches; and for the southern section, 0.87 inch. The greatest monthly amount was 14.33 inches at Lewers' Ranch, near Franktown, Washoe County. The elevation of this station is 5,500 feet above sea level. The least monthly amount was a trace at McAfee's Ranch, near Dyer, Esmeralda County. The greatest amount recorded in 24 hours was 3.70 inches at Lewers' Ranch on the 18th.

The average precipitation for January of this year has been exceeded but twice during the past seventeen years; in 1890 it was 3.81 inches, and in 1895 it was 2.42 inches. The average number of rainy days was 4.

**Wind.**

The prevailing direction of the wind was from the southwest. The total movement of the wind at Reno was 4,106 miles; the total movement at Winnemucca was 6,150 miles. The maximum velocity at Reno was 58 miles per hour from the southwest on the 16th; the maximum velocity at Winnemucca was 39 miles per hour from the southwest on the 16th. The average velocity was 6.9 miles per hour.

**Sunshine and Cloudiness.**

The average number of clear days was 13, partly cloudy days 6, and cloudy days 12.

**WEATHER AND CROP CONDITIONS.**

The mean temperature for the State was slightly below the normal during the first half of the month and above the normal during the last half of the month. The average precipitation was 0.70 inch above the normal. Unusually heavy storms occurred from the 12th to the 19th inclusive when the snowfall in the mountains was very heavy, except in the southern portion of the State where it was moderately light. The ranges were deeply covered with snow in Elko County and range cattle and sheep were fed where it was possible to get feed to them. It was a very difficult matter to gather stock for feeding on account of the deep snow. The loss of cattle, sheep and horses which were fed was not abnormal, but stock which depended entirely upon range feed suffered greatly, especially such stock as was in poor condition at the beginning of the storms. In the southern part of the State cattle and sheep were wintering on the range and were in fine condition. During the latter part of the month the mild weather rapidly melted the snow in the valleys and stock generally suffered no great loss from the severe storms. Stock and ranges were improving at the close of the month. The weather for the month was favorable for winter grain. Fruit trees were in excellent condition.

**MISCELLANEOUS PHENOMENA.**

*Halo, Lunar*—Lewers' Ranch, 9th, 10th, 19th; Reno, 5th; Winnemucca, 4th.

*Halo, Solar*—Carson City, 25th.

*Corona, Lunar*—Geyser, 5th.

*Hail*—Pioche, 14th.

*Sleet*—Reno, 6th.

*Fog, Light*—Palmetto, 15th, 16th, 17th.

*Fog, Dense*—Clover Valley, 4th, 5th, 24th, 25th, 26th; Carson City, 8th; Humboldt, 4th, 5th, 7th, 8th, 9th, 27th; Lewers' Ranch, 7th, 8th, 14th; Morey, 15th; Palmetto, 13th, 14th, 18th, 19th; Pioche, 13th; Quinn River Ranch, 6th, 7th, 8th, 28th, 29th; Reno, 5th, 6th, 7th; Wabuska, 8th; Wells, 4th, 5th, 6th, 7th; Winnemucca, 4th, 5th, 7th, 8th, 24th.



*High Winds*—Clover Valley, 1st, 12th, 14th; Elko, 12th; Hazen, 16th; Martin's Ranch, 12th, 13th, 15th; McAfee's Ranch, 15th, 18th; Palmetto, 1st, 2d, 3d, 11th, 12th; Potts, 11th, 12th, 13th, 15th; Quinn River Ranch, 16th; Wabuska, 16th, 19th; Winnemucca, 16th.

## OBSERVERS' REMARKS.

CLOVER VALLEY—Cattle on the range were very thin. Sheep were doing fairly well. The snow settled to about 8 inches at the close of the month.

A. H. WISEMAN.

GEYSER—The weather has been fine for the last week or ten days and the frost is pretty well out of the ground. Stock are doing well. There is considerable snow in the mountains.

A. D. CAMPBELL.

PIOCHE—The snowfall was heavy but it melted rapidly.

A. A. CARMAN.

QUINN RIVER RANCH—The most beneficial storms I have ever experienced at this place were those of this month. It was pleasantly warm, considerable of the snow melting as it fell. Stock have not suffered in this section and good crops are assured. The snow is drifted very much in the mountains insuring water for summer irrigation.

F. M. PAYNE.

## COMPARATIVE DATA FOR JANUARY.

Year.	Temperature.			Average Precipitation.	Number of Days.				Prevailing Wind.
	Mean.	Highest.	Lowest.		With Precipitation.	Clear.	Partly Cloudy.	Cloudy.	
1890.....	20.4	52	-42	3.81					s
1891.....	27.6	68	-25	0.21	2				N
1892.....	26.7	73	-25	0.53	4				s
1893.....	30.4	63	-23	1.23	4				s
1894.....	28.0	70	-30	1.42	7				sw
1895.....	25.9	60	-30	2.42	7	10	7	14	sw
1896.....	33.9	79	-26	1.80					
1897.....	30.2	65	-12	0.92					
1898.....	20.4	63	-28	0.69	4	12	9	10	N
1899.....	31.8	65	-12	1.20	6	11	7	13	
1900.....	35.7	71	-10	0.42	2	16	5	10	sw
1901.....	30.1	75	-19	1.51	5	13	6	12	sw
1902.....	28.4	69	-32	0.51	4	12	9	10	sw
1903.....	32.0	72	-16	1.81	3	16	5	10	sw
1904.....	27.4	71	-22	0.53	3	17	6	8	sw
1905.....	34.5	72	-11	0.66	3	11	8	12	s
1906.....	28.7	66	-15	2.31	4	13	6	12	sw

## ERRATUM.

Report for November, 1905—Page 5, Carson City mean temperature recorded 36.7°, should be 36.8°.

## NOTES.

A Coöperative Meteorological Station was established at Columbia, Esmeralda County. Mr. Mason Galloway, the Observer, was incapacitated for some time by personal injury, and was compelled to delay the installation of the instruments until the close of the month when the observational work began.

The designation of the Coöperative Station known as Wood, Elko County, has been changed to Clover Valley. Mr. A. H. Wiseman continues in charge of the station.

Observations were resumed at Fallon, Churchill County, with Mr. Thomas Dolf in charge of the station.

## SNOWFALL IN THE MOUNTAINS.

The precipitation for the month of January was unusually heavy. In some of the mountainous regions of the State the snowfall was reported to be the heaviest since the winter of 1889-90. Remarkable storms occurred throughout the State from the 11th to the 19th inclusive, when practically all of the precipitation for the month fell. During this period of nine days, the following heavy precipitation was actually measured at moderately high altitudes in the drainage area of the Truckee River; 14.65 inches at Hobart Mills; 13.51 inches at Donner; 13.83 inches at Lewers' Ranch. Unusually high winds caused the snow to drift into the gulches where it was from ten feet to sixty feet in depth. The rain and moist snow which fell from the 17th to the 19th inclusive, caused the snow to settle until it was solid and icy. Observers in the different drainage areas agree that the depth of snow in the mountains at the close of January was greater than the average and many report the amount as twice the average. Although the ground was very dry at the beginning of the winter, it is generally predicted that the amount of well-packed snow at high altitudes is sufficient to insure a good supply of water for late irrigation.

## TABLE OF SNOWFALL.

Station.	County.	Compared with average.	On Ground January 31	
			At station.	At or near summit of mountains.
			Inches.	Inches.
<i>Humboldt River Drainage:</i>				
Beaver .....	Elko .....	More .....	24	48-60
Beowawe .....	Eureka .....	More .....	0	6
Bullion .....	Elko .....	More .....	16	36-48
Carlin .....	Elko .....	More .....	T	
Charleston .....	Elko .....	More .....	14	20
Deeth .....	Elko .....	More .....	18	180
Golconda .....	Humboldt .....	More .....	0	180
Lamoille .....	Elko .....	More .....	12	
Palisade .....	Eureka .....	More .....	0	2
Rebel Creek .....	Humboldt .....	More .....	12	24
Tuscarora .....	Elko .....	More .....	18	36-60
Unionville .....	Humboldt .....	More .....	T	12-18
Wells .....	Elko .....	More .....	10	72
Winnemucca .....	Humboldt .....	More .....	0	12-24
<i>Truckee River Drainage:</i>				
Boca, Cal. ....	Nevada .....	More .....	14	36
Donner, Cal. ....	Nevada .....	More .....	34	144
Floriston, Cal. ....	Nevada .....	More .....	5	60
Glenbrook .....	Douglas .....	More .....	36	72
Hobart Mills, Cal. ....	Nevada .....	More .....	30	72
Ophir .....	Washoe .....	More .....	0	168
Tahoe, Cal. ....	Placer .....	More .....	53	140
Truckee, Cal. ....	Nevada .....	More .....	36	96
Wadsworth .....	Washoe .....	More .....	0	42-48
Washoe .....	Washoe .....	More .....	0	180
<i>Carson River Drainage:</i>				
Dayton .....	Lyon .....	More .....	0	12
Woodfords, Cal. ....	Alpine .....	More .....	0	136
<i>Walker River Drainage:</i>				
Bodie, Cal. ....	Mono .....	More .....	30	168
Bridgeport, Cal. ....	Mono .....	More .....	4	180
Lundy, Cal. ....	Mono .....	More .....	72	324
Mason Valley .....	Lyon .....	More .....	0	60
Pinegrove .....	Esmeralda .....	More .....	12	48
Schurz .....	Esmeralda .....	More .....	0	14
Sweetwater .....	Esmeralda .....	More .....	2	36
Topaz, Cal. ....	Mono .....	More .....	0	36-48
<i>Reese River Drainage:</i>				
Austin .....	Lander .....	More .....	3	15
Berlin .....	Nye .....	More .....	2	24
Eureka .....	Eureka .....	More .....	12	24-36



## CLIMATOLOGICAL DATA FOR JANUARY, 1906.

Stations.	Counties.	Elevation (feet)	Length of record (years).	Temperature (degrees Fahrenheit)							Precipitation (inches).					Sky				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.			
Northern Section.																					
Battle Mountain-1.....	Lander	4,511	36	29.8	+2.1	56	31	0	4	40	0.90	-0.02	0.50	9.0	3	8	15	8	SW	Agent So. Pacific Co.	
Beowawe-3.....	Eureka	4,695	36	29.4	+3.1	50	13	-8	1	...	0.90	+0.05	0.50	9.0	2	...	...	...	...	Agent So. Pacific Co.	
Carlin-3.....	Elko	4,897	36	27.3	+6.9	45	18	0	7	...	1.90	+0.78	0.50	19.0	5	5	18	8	E	Agent So. Pacific Co.	
Clover Valley†-1.....	Elko	6,000	7	22.2	.....	43	17	-13	8	36	3.30	.....	1.25	46.8	9	10	10	11	N	A. H. Wiseman	
Elko-3.....	Elko	5,063	36	21.2	+0.7	49	31	-12	1	.....	3.90	+2.95	.....	29.0	5	10	11	10	.....	Agent So. Pacific Co.	
Penelon-3.....	Elko	6,128	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Agent So. Pacific Co.	
Golconda-3.....	Humboldt	4,392	28	27.6	-2.5	42	25	2	7	.....	1.50	+0.88	0.80	15.0	2	10	1	20	.....	Agent So. Pacific Co.	
Halleck-3.....	Elko	5,229	34	22.3	+0.7	42	12	-12	8	.....	2.40	+1.39	.....	24.0	.....	24	0	7	W	Agent So. Pacific Co.	
Humboldt-1.....	Humboldt	4,236	35	28.6	-1.3	47	24	18	2	23	0.91	+0.10	0.90	6.8	2	20	1	10	S	Agent So. Pacific Co.	
Lovelock-1.....	Humboldt	3,977	15	30.6	-1.1	55	27	5	2	35	0.75	+0.25	0.60	6.0	2	8	7	16	SW	Agent So. Pacific Co.	
Mill City-3.....	Humboldt	4,225	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20	3	8	.....	.....	Agent So. Pacific Co.	
Palisade-1.....	Eureka	4,821	25	28.3	+4.6	52	22	-10	1	44	0.54	-0.60	0.30	3.5	4	14	3	14	S	Agent So. Pacific Co.	
Quinn River Ranch‡-1.....	Humboldt	4,850	5	24.0	.....	47	18	-7	5	46	3.16	.....	0.63	.....	9	15	4	12	W	F. M. Payne	
gSan Jacinto-1.....	Elko	.....	2	26.6	.....	48	16	-10	1	.....	1.46	.....	0.70	19.0	5	11	7	13	S	W. C. Betteridge, Jr.	
Tecoma-1.....	Elko	4,812	29	23.2	+3.5	48	26	1	7	40	2.00	+1.44	1.20	20.0	3	.....	.....	.....	.....	Agent So. Pacific Co.	
Wells-3.....	Elko	5,623	35	23.5	+1.4	47	18	-14	9	.....	3.50	+1.98	1.50	29.0	6	9	10	12	SW	Agent So. Pacific Co.	
Winnemucca-1.....	Humboldt	4,432	28	26.6	-0.4	49	18	-3	2	34	2.18	+1.07	0.84	15.7	10	10	6	15	NE	U. S. Weather Bureau	
Central Section.																					
Means.....				26.3	.....	56	31	-14	9	37	1.95	.....	0.79	18.0	5	12	7	12	SW		
Austin-1.....	Lander	6,594	18	29.5	+2.5	48	16	8	1	30	0.31	-1.10	0.23	.....	2	.....	.....	.....	.....	H. W. Dyer	
Eureka-1.....	Eureka	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Geo. L. Broy	
Potts-1.....	Nye	6,990	14	22.6	-1.6	44	18	-15	2	45	0.81	+0.03	0.75	9.5	3	10	2	19	N	Miss Maude Potts	
Western Section.																					
Means.....				26.0	.....	48	16	-15	2	38	0.56	.....	0.49	.....	.....	.....	.....	.....	.....		
Carson City-2.....	Ormsby	4,660	27	34.4	+2.1	56	23	6	2	38	5.75	+3.19	1.95	14.9	8	14	9	8	NE	C. W. Friend	
Fallon-1.....	Churchill	.....	2	31.7	.....	60	18	6	2	38	.....	.....	.....	.....	.....	.....	.....	.....	.....	Thomas Dolf	
Hazen-1.....	Churchill	4,050	.....	29.3	.....	52	25	3	16	44	0.21	.....	0.12	2.0	2	16	4	11	.....	Stanley Bray	
Lewers' Ranch‡-1.....	Washoe	5,500	19	34.6	+3.4	53	22	8	2	33	14.33	+10.15	3.70	20.0	9	12	3	16	SW	Mrs. Ross Lewers	
Martin's Ranch‡-1.....	Douglas	4,830	8	38.8	+6.5	64	23	5	2	45	3.10	+0.54	1.00	5.0	7	16	3	12	SW	Mrs. J. H. Martin	
Reno-1.....	Washoe	4,532	36	34.6	+3.8	55	24	9	2	32	3.55	+2.04	1.81	8.9	7	10	9	12	SW	U. S. Weather Bureau	
Wabuska-1.....	Lyon	4,347	4	32.6	.....	66	18	5	4	37	0.58	.....	.....	.....	3	15	8	8	NW	J. G. Young	
Wadsworth-1.....	Washoe	4,077	35	33.5	.....	59	25	0	2	40	2.28	+1.50	1.50	2.5	3	15	5	11	E	Agent So. Pacific Co.	
Verdi-3.....	Washoe	4,904	.....	29.5	.....	62	25	8	1	.....	4.72	.....	1.12	13.0	6	9	0	22	S	C. G. Sehny	
Southern Section.																					
Means.....				33.2	.....	66	18	0	2	38	2.6	.....	1.60	9.5	6	13	5	13	SW		
Belmont-1.....	Nye	8,132	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. N. Granger	
Candelaria-1.....	Esmeralda	5,783	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. G. Grube	
Geyser-1.....	Lincoln	.....	2	27.8	.....	50	7	-10	9	50	1.05	.....	0.55	2.5	3	19	5	7	N	A. D. Campbell	
Hawthorne-1.....	Esmeralda	4,569	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. G. Watterson	
McAfee's Ranch*-1.....	Esmeralda	4,835	3	32.3	.....	57	18	-6	27	56	T	.....	T	0.0	0	20	2	9	.....	G. A. McAfee	
Morey‡-1.....	Nye	7,384	3	29.8	.....	57	31	3	21	32	1.92	.....	0.83	11.6	5	18	2	11	S	C. S. Gibson	
Palmetto-1.....	Esmeralda	6,780	17	30.4	+4.9	57	18	-4	2	44	0.48	-1.09	0.23	0.0	2	17	9	5	W	Wm. Oothout, Jr.	
bPioche-1.....	Lincoln	6,100	2	25.6	.....	51	26	-2	2	40	0.92	.....	0.43	2.0	3	15	5	11	S	A. A. Carman	
State Means.....				29.2	.....	57	18	-10	9	44	0.87	.....	0.42	3.2	3	18	5	8	S		
Miscellaneous.																					
Modena (Utah)-1.....	Iron	5,470	6	28.4	.....	50	17	-8	2	38	0.67	.....	0.34	1.5	4	10	9	12	W	U. S. Weather Bureau	
Independence (Cal.)-1.....	Inyo	3,721	9	43.0	.....	69	16	21	9	33	2.89	.....	1.72	0.0	6	14	14	3	NW	U. S. Weather Bureau	
Laws (Cal.)-3.....	Inyo	.....	.....	42.5	.....	63	16	16	2	.....	0.65	.....	0.40	0.0	2	14	1	16	NW	W. M. Richards	
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REFERENCES: 1, Weather Bureau maximum and minimum thermometers in use; 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed before the name of a station, or against the data in the body of the form, indicates the number of days missing from the record: for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

† Postoffice—Wells. ‡ Postoffice—Franktown. § Postoffice—Gardnerville. ¶ Postoffice—Amos. \* Postoffice—Dyer. † Postoffice—Hot Creek.

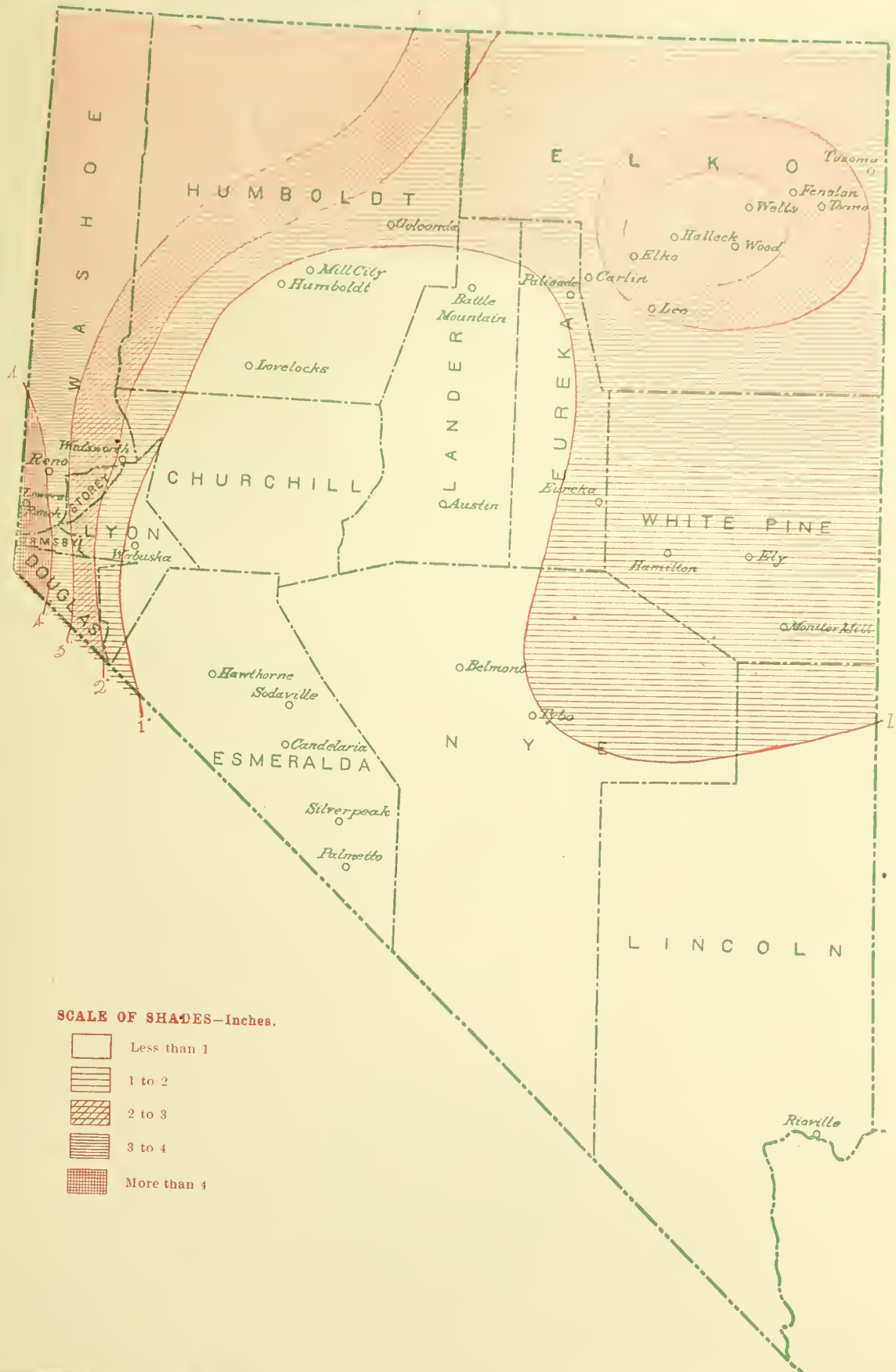


DAILY MAXIMUM AND MINIMUM TEMPERATURES FOR JANUARY, 1906.

Stations.	Day of Month.																															Monthly means.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Austin.....	Max.	28	31	37	40	40	41	39	36	40	41	42	40	38	37	40	48	43	46	43	30	28	38	39	40	40	42	41	37	36	37	39	38.6	
	Min.	8	11	15	18	23	24	16	10	22	27	21	25	23	23	22	27	24	37	50	52	40	45	40	22	24	22	22	21	20	18	22	20.4	
	Max.	40	29	32	40	29	30	40	33	25	48	36	42	40	42	35	45	43	50	52	40	45	40	38	48	55	52	50	54	51	51	56	46.9	
	Min.	10	5	5	0	2	0	6	7	5	15	15	20	22	24	21	26	28	33	30	24	16	12	20	24	25	25	26	19	18	20	21	16.9	
Belmont.....	Max.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Candelaria.....	Max.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Carson City.....	Max.	31	36	43	47	44	41	42	27	46	42	51	42	48	40	48	51	53	48	44	39	36	48	56	51	51	52	51	50	48	50	45.3		
Clover Valley.....	Max.	32	38	39	32	34	23	34	12	24	23	38	36	36	42	29	40	43	41	40	28	28	29	33	34	37	38	36	32	38	39	33.1		
	Min.	25	12	6	8	9	15	15	20	20	31	27	32	34	28	28	40	37	41	40	28	36	32	33	34	37	38	32	32	38	39	33.1		
	Max.	4	-3	5	12	13	0	4	-13	-4	14	14	24	27	26	17	24	25	30	21	14	11	9	17	20	13	9	10	2	-1	2	8	11.4	
	Min.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Elko.....	Max.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Eureka.....	Min.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Fallon.....	Max.	27	30	34	35	33	34	32	30	34	45	50	51	48	48	51	55	55	60	53	36	39	49	50	55	50	55	58	45	46	46	46	44.5	
Geyser.....	Min.	11	6	7	7	9	9	9	7	18	17	21	24	10	11	30	24	29	49	28	18	10	24	25	22	22	23	24	29	28	20	15	18.9	
Hazen.....	Max.	25	26	30	45	43	45	50	48	40	48	46	40	45	48	45	47	46	43	40	30	35	40	38	43	45	43	48	43	42	40	43	41.6	
Humboldt.....	Min.	12	8	2	4	6	7	5	0	-10	15	7	15	20	18	32	31	26	33	30	5	0	-2	9	10	23	23	25	22	18	20	21	14.0	
Humboldt.....	Max.	40	35	32	37	40	39	44	51	49	50	46	49	50	46	49	46	51	50	51	39	46	47	49	51	52	50	50	50	50	50	50	44.0	
Humboldt.....	Min.	15	10	5	7	6	13	9	11	20	23	13	20	23	5	15	3	19	10	7	15	12	17	27	27	22	30	38	40	42	46	45	14.6	
Humboldt.....	Max.	20	18	23	27	25	26	27	27	29	40	38	40	42	38	40	42	40	36	37	40	38	36	39	47	43	42	38	40	42	46	45	35.8	
Humboldt.....	Min.	4	6	8	12	10	11	12	11	14	23	27	29	26	25	28	33	32	28	20	21	23	27	25	24	25	27	23	25	26	28	26	21.3	
Hawthorne.....	Max.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Lewers' Ranch.....	Min.	30	39	41	43	45	45	43	32	45	41	49	48	41	49	45	46	46	45	45	47	40	53	51	53	51	52	50	49	50	50	50	45.6	
Lewers' Ranch.....	Max.	12	8	12	12	17	21	13	14	22	30	27	31	31	31	26	36	35	31	25	14	13	30	37	29	29	34	25	24	22	22	22	22	23.7
Lovelock.....	Max.	45	40	35	35	35	30	30	35	37	37	40	40	45	45	40	35	45	45	45	45	45	40	40	45	50	50	55	50	50	50	50	42.2	
Lovelock.....	Min.	10	5	10	10	5	10	10	15	15	15	18	20	25	25	20	15	15	25	25	25	20	20	25	30	28	30	20	20	23	25	18.9		
Martin's Ranch.....	Max.	52	44	48	53	54	50	48	49	54	54	61	53	50	49	51	48	60	56	57	51	46	54	64	59	58	57	57	61	61	55	60	54.0	
Martin's Ranch.....	Min.	15	5	7	8	13	15	13	19	18	29	25	34	34	30	29	30	38	40	30	19	17	29	32	27	28	32	25	23	22	21	20	23.5	
McAfee's Ranch.....	Max.	33	44	49	48	48	44	48	43	43	51	45	43	52	52	53	55	55	57	52	39	41	49	47	53	57	50	50	50	50	53	55	48.7	
McAfee's Ranch.....	Min.	19	16	24	16	5	12	7	3	5	9	13	27	26	34	31	32	31	32	35	16	-4	11	11	10	11	11	-6	25	49	52	51	57	41.9
Morey.....	Max.	24	34	40	50	47	40	43	40	39	41	33	35	38	38	36	44	47	47	40	37	29	41	38	49	49	47	47	49	52	51	57	41.9	
Morey.....	Min.	8	9	15	24	21	22	20	9	11	12	14	15	24	25	18	22	23	28	16	7	3	10	19	20	22	22	22	22	20	25	25	17.7	
Palmetto.....	Max.	24	38	42	48	50	46	44	45	42	45	34	34	44	48	46	55	57	45	35	42	45	45	55	53	50	48	44	48	50	52	45.2		
Palmetto.....	Min.	13	-4	3	12	12	23	9	1	8	12	15	23	28	32	30	22	30	34	33	12	1	10	21	18	17	16	12	13	10	12	12	15.5	
Palisade.....	Max.	30	32	31	42	40	24	20	40	41	35	43	48	40	50	43	40	51	48	50	34	31	52	43	40	48	46	47	46	48	45	52	41.3	
Palisade.....	Min.	-10	-6	10	12	12	-4	14	2	4	14	15	30	32	30	25	26	24	35	25	14	9	20	24	17	15	16	15	16	14	17	8	15.3	
Pioche.....	Max.	24	33	36	44	48	48	43	37	37	43	39	37	35	41	40	43	48	48	38	32	30	37	41	46	48	51	50	41	48	47	40	40.7	
Pioche.....	Min.	5	-2	1	8	8	3	9	4	0	11	11	13	18	21	16	24	24	23	19	-2	0	0	8	9	11	11	12	17	12	16	16	10.5	
Potts.....	Max.	15	28	32	29	30	35	28	22	37	35	39	36	36	36	39	41	42	44	38	22	26	39	43	39	38	37	34	32	34	36	34.2		
Quinn River Ranch.....	Min.	8	-15	8	17	3	6	4	-15	-8	34	38	27	26	20	28	27	33	35	9	-3	15	19	13	12	11	5	1	4	7	4	7	11.0	
Quinn River Ranch.....	Max.	31	35	36	32	22	25	38	24	25	38	37	37	37	37	32	42	47	42	42	42	42	33	32	40	46	47	44	41	38	41	39	36.8	
Quinn River Ranch.....	Min.	-1	-6	5	-6	-7	-2	13	14	12	19	22	15	28	25	24	24	27	23	17	-5	4	30	26	21	22	15	3	-2	-3	-5	-2	11.3	
Reno.....	Max.	30	40	41	43	45	38	31	30	46	45	51	41	49	37	48	53	51</																



TOTAL PRECIPITATION FOR JANUARY, 1906.





## DAILY PRECIPITATION FOR JANUARY, 1906.

Stations.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Northern Section.																																	
Battle Mountain												.20	.20		.50	T	T						T										0.90
Beowawe												.50	.50	.40	.50	.40	T	T	T	.10													0.90
Carlin												T	* 1.25	.70	*	.40	T	.65	.19	.06			.05										1.90
Clover Valley												.80	.80	.35			.10																3.30
Crane's Ranch										T		*	2.40	*	.50			1.00	T														3.90
Elko																																	
Fenelon												T	.80	.70																			1.50
Golconda												*	*	2.40	.90																		2.40
Halleck								T	.01					.15	.60																		0.91
Humboldt																																	0.75
Lovelock																																	
Mill City												T	.14	.30	.30	.62	.31	.06	.28	.14	.05		T										0.54
Pallisade									.50			.34	.63	.28	.62	.31	.06	.28	.14	.05	.20												3.16
Quinn River Ranch												T	.35	.70	.05	.16																	1.46
San Jacinto	T											.40	1.20	.40	.40	T	T	.50	.40													2.00	
Tecoma									.50			.150	.10	.50	T	T	.08	.08	.17			T											3.50
Wells									.01	.03		.22	.79	.12	.60	T							.08										2.18
Winnemucca						T																											
Central Section.																																	
Austin												.08			.23																		0.31
Eureka												.05	.01	.75				T															0.81
Potts																																	
Western Section.																																	
Carson City									T			1.22	1.95	.22	.96	.45	.06	.41	.48														5.75
Hazen												T	.12	.09	.09	.125	.03	.370	1.50					T									0.21
Lewers' Ranch	.50								T			1.55	3.60	.60	1.60	.50	.68	.02	.32	.28													14.33
Martin's Ranch												.30	1.00		.50	.50	.09	T	.31	.31													3.10
Reno												1.38	.85	.02	.59	.09	T																3.55
Wabuska												*	.35	.23																			0.58
Wadsworth												.53	1.50	.25	*	1.00			1.12														2.28
Verdi												1.00	.80	.80	*	1.00																	4.72
Southern Section.																																	
Belmont																																	
Candelaria															.25			.25	.55														1.05
Geyser																																	T
Hawthorne															T	.83																	
McAfee's Ranch													.08	.28				.21	.52					T									1.92
Morey											T	T	T	T	.12			.20	.28														0.48
Palmetto																		.43	.37														0.92
Pioche																																	
Miscellaneous.																																	
Modena (Utah)	.10											T	T	.10				.33	.14														0.67
Independence (Cal.)												.02	1.43	.29	.08			.05	1.02														2.89
Laws (Cal.)												.40							.25														0.65
Hobart Mills (Cal.)												1.98	3.47	.83	2.15	1.35	.69	2.96	1.22														14.65
Donner (Cal.)											T	.47	3.54	1.75	.54	.98	1.82	2.80	1.22			T											13.12
Bridgeport (Cal.)												.90	.75	.10	.05	.76	.05																2.61
Taboe (Cal.)												3.80	.09	1.20	.30	.90	2.00	1.00	.20														9.49

T indicates trace. \* Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, -  - ANDREW MAUTE, SUPT.

1906



U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR FEBRUARY, 1906.

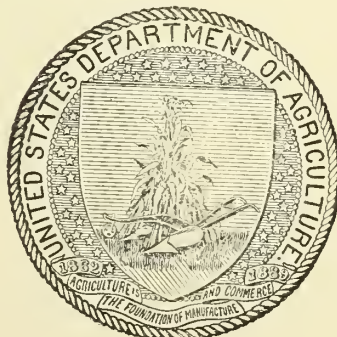
NEVADA SECTION  
OF THE  
CLIMATOLOGICAL SERVICE  
OF THE  
WEATHER BUREAU

IN COOPERATION WITH THE  
NEVADA STATE WEATHER SERVICE  
(CHARLES W. FRIEND, Director.)

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF  
WILLIS L. MOORE  
CHIEF U. S. WEATHER BUREAU

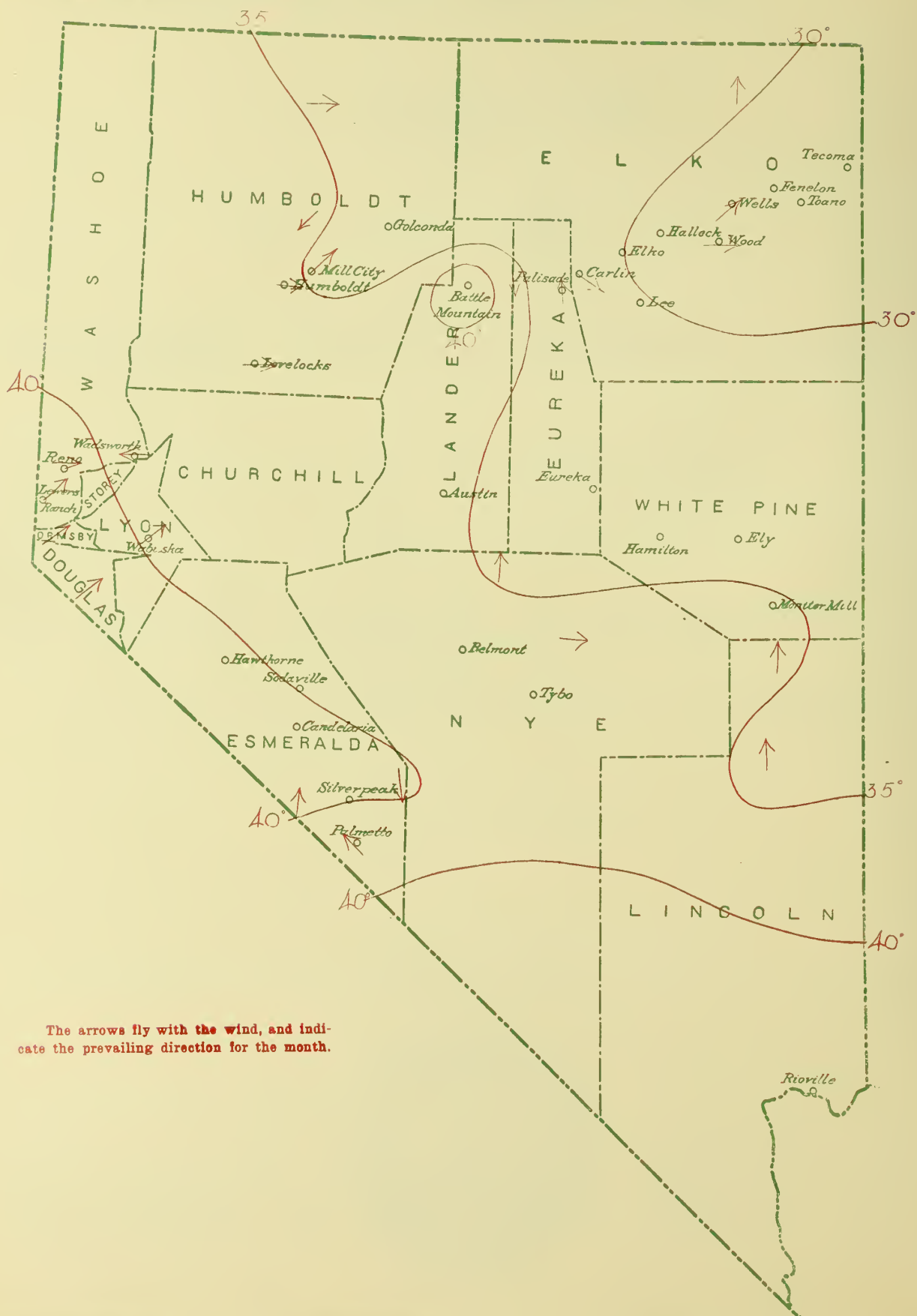
BY  
H. F. ALPS  
ACTING SECTION DIRECTOR



CARSON CITY, NEVADA:  
March 27, 1906.



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR FEBRUARY, 1906.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,

HENRY F. ALPS, Acting Section Director.

VOL. XX.

RENO, NEVADA, FEBRUARY, 1906.

No. 2.

## GENERAL SUMMARY.

## Pressure.

The mean pressure for the State, reduced to sea level, was 30.02 inches. The highest during the month was 30.43 inches at Winnemucca on the 1st, and the lowest was 29.60 inches at Winnemucca on the 20th.

## Temperature.

The mean temperature for the State was  $36.4^{\circ}$ , which is  $5.0^{\circ}$  above the normal for the month, and  $1.4^{\circ}$  lower than the mean for the corresponding month of 1905. The mean temperature for the northern section was  $33.7^{\circ}$ ; for the central section,  $33.1^{\circ}$ ; for the western section,  $40.6^{\circ}$ ; and for the southern section,  $37.4^{\circ}$ . The highest monthly mean temperature was  $44.1^{\circ}$  at Martin's Ranch, near Gardnerville, Douglas County. The lowest monthly mean was  $27.1^{\circ}$  at Wells, Elko County. The highest temperature was  $69^{\circ}$  at Fallon, Churchill County, and at Martin's Ranch, Douglas County, on the 26th. The lowest temperature was  $2^{\circ}$  at Clover Valley, Elko County, on the 4th. The absolute range of temperature for the State was  $67^{\circ}$ ; the greatest daily range was  $46^{\circ}$  at Pioche, Lincoln County, on the 26th.

The highest temperatures for the month occurred at the majority of stations during the last half of the month, the date at ten stations being the 26th. The lowest temperatures occurred at twelve stations on the 1st, nine stations on the 4th and 5th, one station on the 8th, and the remainder on the 23d and 28th.

## Precipitation.

The average precipitation for the State was 1.03 inches, which is 0.30 inch below the normal for the month, and 0.10 inch lower than the average for the corresponding month of 1905. The average precipitation for the northern section was 0.88 inch; for the central section, 0.45 inch; for the western section, 1.17 inches; and for the southern section, 1.25 inches. The greatest monthly amount was 3.90 inches at Lewers' Ranch, near Franktown, Washoe County. The least monthly amount was none at Wadsworth, Washoe County. The greatest amount recorded in 24 hours was 1.10 inches at Lewers' Ranch on the 15th. The average number of rainy days was 5.

No precipitation occurred during the first eight days of the month, with the exception of light showers at Columbia on the 6th, and at Palmetto on the 5th, 6th, and 8th. These stations are located in the southern portion of Esmeralda County. Precipitation was of frequent occurrence throughout the State during the remainder of the month.

## Wind.

The prevailing direction of the wind was from the southwest. The total movement of the wind at Reno was 3,778 miles; the total movement at Winnemucca was 5,746 miles. The maximum velocity at Reno was 42 miles per hour from the south on the 20th; the maximum velocity at Winnemucca was 52 miles per hour from the southwest on the 20th. The average velocity was 7.1 miles per hour.

## Sunshine and Cloudiness.

The average number of clear days was 10, partly cloudy days 6, and cloudy days 12.

## MISCELLANEOUS PHENOMENA.

*Halo, Lunar*—Lewers' Ranch, 7th, 8th; Reno, 14th.

*Corona, Lunar*—Geyser, 1st, 2d.

*Hail*—Columbia, 6th, 10th, 28th; Palisade, 12th, 15th.

*Eclipse of Moon, Total*—Golconda, 8th.

*Thunderstorm*—Geyser, 12th.

*Fog*—Clover Valley, 7th, 8th, 9th, 10th, 11th, 12th, 13th; Palmetto, 6th, 9th, 10th, 11th, 13th, 14th, 15th, 17th; Tecoma, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th; Wells, 9th, 12th.

*High Winds*—Clover Valley, 15th, 19th, 24th; Columbia, 14th, 20th, 27th, 28th; Hazen, 28th; Mill City, 20th; Morey, 19th, 27th, 28th; Palmetto, 28th; Reno, 15th, 18th, 20th, 23d, 24th; Winnemucca, 20th.

## OBSERVERS' REMARKS.

CLOVER VALLEY—February was a very cold and foggy month. There is plenty of snow in the mountains for next season.

A. H. WISEMAN.

GEYSER—The weather during the month was very changeable, but not very cold. There is considerable snow in the mountains, but none in the valleys.

A. D. CAMPBELL.

LEWERS' RANCH—The snow is heavy in the mountain cañons; a snowslide occurred in South Cañon on the 14th.

MRS. ROSS LEWERS.

MCAFEE'S RANCH—The weather for the month was very pleasant, with the exception of the last day, when snow fell on the mountains and cold north winds prevailed in the valley.

G. A. MCAFEE.

PALMETTO—High winds and snow squalls prevailed on the 28th.

WM. OOTHOUT, JR.

PIOCHE—There was a continuous storm from the 10th to the 15th.

A. A. CARMAN.

## DELAYED REPORT.

Quinn River Ranch (Humboldt County), report for February, 1906: Mean temperature,  $34.4^{\circ}$ ; highest,  $60^{\circ}$  on the 20th; lowest,  $17^{\circ}$  on the 3d and 9th; greatest daily range,  $29^{\circ}$ ; total precipitation, 0.48 of an inch; greatest amount in twenty-four consecutive hours, 0.19 of an inch, on the 17th; number of days with .01 of an inch or more of precipitation, 7; number of clear days, 9; partly cloudy, 3; cloudy, 16; prevailing direction of wind, west.



## COMPARATIVE DATA FOR FEBRUARY.

Year.	Temperature.			Average Precipitation.	Number of Days.				Prevailing Wind.
	Mean.	Highest.	Lowest.		With Precipitation	Clear.	Partly Cloudy.	Cloudy.	
1890.....	30.7	88	-41	1.55	.....	.....	.....	.....	s
1891.....	30.5	66	-19	2.39	7	.....	.....	.....	s
1892.....	33.0	74	-18	0.95	4	.....	.....	.....	s
1893.....	29.9	69	-40	1.43	5	.....	.....	.....	sw
1894.....	25.7	71	-41	1.92	6	.....	.....	.....	sw
1895.....	31.1	77	-35	1.23	4	13	6	9	N
1896.....	35.4	86	-12	0.02	.....	.....	.....	.....	.....
1897.....	29.6	67	-22	2.09	.....	.....	.....	.....	.....
1898.....	36.9	79	-2	0.29	2	12	10	6	w
1899.....	33.3	73	-27	0.55	4	13	7	8	w
1900.....	35.3	76	-12	0.51	4	11	6	11	sw
1901.....	31.6	77	-27	2.61	8	7	5	16	sw
1902.....	36.4	75	-16	1.41	6	7	9	12	sw
1903.....	20.7	86	-32	0.56	3	17	5	6	N
1904.....	35.9	73	-15	2.48	7	9	7	13	sw
1905.....	37.8	80	-37	1.13	4	14	6	8	N
1906.....	36.4	69	2	1.03	5	10	6	12	sw

## TABLE OF SNOWFALL.

Station.	County.	Compared with average.	On Ground February 28th.	
			At station.	At or near summit of mountains.
			Inches.	Inches.
<i>Humboldt River Drainage:</i>				
Bullion .....	Elko .....	More .....	6	24
Carlin .....	Elko .....	More .....	T	24-36
Charleston .....	Elko .....	More .....	30	30
Clover Valley .....	Elko .....	More .....	4	
Deeth .....	Elko .....	More .....	36	240-360
Lamoille .....	Elko .....	More .....	10	120
Palisade .....	Eureka .....	More .....	2	4
Paradise Valley .....	Humboldt .....	More .....	6	24-60
Rebel Creek .....	Humboldt .....	More .....	2	16
Tuscarora .....	Elko .....	More .....	24	72
Wells .....	Elko .....	More .....	12	
Winnemucca .....	Humboldt .....	More .....	1	24-96
<i>Truckee River Drainage:</i>				
Boca, Cal. ....	Nevada .....	Average .....	8	48
Donner, Cal. ....	Nevada .....	More .....	52	144
Floriston, Cal. ....	Nevada .....	More .....	4	24
Hobart Mills, Cal. ....	Nevada .....	More .....	25	78
Marmol .....	Washoe .....	More .....	48	72-96
Ophir .....	Washoe .....	Average .....	0	120
Tahoe, Cal. ....	Placer .....	More .....	72	120
Wadsworth .....	Washoe .....	More .....	0	12-24
Washoe .....	Washoe .....	Less .....	0	144-180
<i>Carson River Drainage:</i>				
Dayton .....	Lyon .....	More .....	0	0
Markleeville, Cal. ....	Alpine .....	More .....	28	144
Virginia City .....	Storey .....	More .....	0	
Woodfords, Cal. ....	Alpine .....	More .....	0	135
<i>Walker River Drainage:</i>				
Bodie, Cal. ....	Mono .....	More .....	30	180
Bridgeport, Cal. ....	Mono .....	More .....	T	360
Lundy, Cal. ....	Mono .....	More .....	84	360
Mason Valley .....	Lyon .....	Less .....	0	72
Pinegrove .....	Esmeralda .....	More .....	6	8
Schurz .....	Esmeralda .....	More .....	0	14
Smith .....	Lyon .....	More .....	0	
Sweetwater .....	Esmeralda .....	More .....	0	48
<i>Reese River Drainage:</i>				
Berlin .....	Nye .....	More .....	0	18

## TITLE OF PUBLICATION CHANGED.

Beginning with the present issue, this publication will be known as the Monthly Report of the Nevada Section of the Climatological Service of the Weather Bureau. It succeeds the Climate and Crop Service series of monthly reports heretofore published in this form. The crop feature is omitted, but in other respects the character of the publication is unchanged.

## NOTES.

Mr. George A. Gauser has succeeded Mr. Stanley Bray as Coöperative Observer at Hazen, Nevada.

A full report for the Coöperative Station at Columbia, Esmeralda County, is published in this issue. Mr. Mason Galloway, who has charge of the Nevada Power, Mining and Milling Company's Substation at Columbia, is the Coöperative Observer.

Professor J. E. Church, Jr., reports the following temperatures on the summit of Mount Rose for the month of February: maximum temperature, 36°, on the 5th; minimum temperature, 10°, on the 21st, 22d, and 23d.

## EXTRACTS FROM THE REPORT OF THE CHIEF OF THE WEATHER BUREAU FOR 1905.

In order that this country may do its share toward the advancement of meteorology along the lines that specially relate to conditions in America, it is imperative that the Weather Bureau should establish an observatory for its own special research work. It would seem a severe criticism to say that the United States Weather Bureau has 200 stations for routine observations and spends such a large amount of money annually for routine work without doing anything for the permanent improvement of the science upon whose development its efficiency depends. It was long since stated that the highest efficiency in any art implies a perfect knowledge of the higher science behind it.

We have therefore secured a peice of land and inaugurated work at an establishment that is intended to respond to the present and prospective needs of meteorology. We have called this the Mount Weather Research Observatory, and have organized it on a broad and elastic basis so that it may from year to year expand with the growing knowledge of our needs. \* \* \*

In order to prosecute the researches contemplated at Mount Weather, we have established there a plant especially adapted to atmospheric research. By means of balloons and kites, the temperature, moisture, and movements of the air at great heights will be ascertained. The absorption of solar heat by the atmosphere will be measured by means of the pyrheliometer and actinometer. The dissipation of solar light and heat will be determined by the polariscope. The special analysis of the sunbeam will be carried out by means of the bolometer and spectrometer. The electric condition will be determined by means of the electrometer, and the radioactivity, or ionization of the air, by means of the dissipation apparatus of Ebert. To all this we have added apparatus for studying the relations to the atmosphere of the magnetism of the earth, the temperature of the soil, and even the motions of the earth as shown by the seismographs. All these phenomena have been shown to have a more or less intimate connection with meteorology. \* \* \*

Therefore Mount Weather may be expected to do as much for the science of meteorology and the future improvement of the service as the service has already done during the past 35 years for the material interests of the United States. As this country led the world in the practical application of meteorology, it is desired henceforth to lead in the development of the science itself. \* \* \*

The prime object of the institution, viz, the taking of observations and the gathering of data with which to make experimentation and prosecute research, will be kept in mind. Unpublished data will be open to the use of all recognized investigators, and coöperation with other scientific workers will be encouraged. Questions that may directly or indirectly be of value to the science of meteorology will be proper subjects for investigation. The field of inquiry will, therefore, be a broad one.



## CLIMATOLOGICAL DATA FOR FEBRUARY, 1906.

Stations	Counties	Temperature (degrees Fahrenheit).										Precipitation (inches)				Sky				Observers	
		Elevation (feet)	Length of record (years).	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range	Total	Departure from the normal.	Greatest in 24 hours.	Total snow fall (unmelted).	Number rainy days.	Number clear days	Number partly cloudy days.	Number cloudy days.	Prevailing direction of wind.		
Northern Section.																					
Battle Mountain-1	Lander	4,511	36	42.2	+9.2	64	12	20	1	10						12	4	12		Agent So. Pacific Co. Agent So. Pacific Co. Agent So. Pacific Co. A. H. Wiseman Agent So. Pacific Co.	
Beowawe-3	Eureka	4,695	36	37.9	+6.7	60	20	20	5		0.92	+0.21	0.30	8.0	5	10	9	9	N		
Carlin-3	Elko	4,897	36	32.4	+3.8	52	17	5	4		0.55	0.40	0.20	5.5	5	6	12	10	NW		
Clover Valley†-1	Elko	6,000	7	28.2		47	20	2	4	35	1.66		0.41		7	7	6	15	W		
Elko-3	Elko	5,063	36	29.5	+2.2	48	6	10	1							16	0	12			
Fenelon-3	Elko	6,128	19																	Agent So. Pacific Co. Agent So. Pacific Co. Agent So. Pacific Co. Agent So. Pacific Co. Agent So. Pacific Co.	
Golconda-3	Humboldt	4,392	28	34.3	-1.1	50	16	19	5							15	0	13			
Halleck-3	Elko	5,229	34													19	6	9			
Humboldt-1	Humboldt	4,236	35	38.6	+4.0	62	11	20	28	33	T	0.80	T	T	0	18	0	10	W		
Lovelock-1	Humboldt	3,977	15	38.8	+2.8	60	20	15	28	40	0.20	-0.33	0.20	1.0	1	13	11	4	W		
Mill City-3	Humboldt	4,225	18	32.0	-2.0	48	26	18	1		0.30	-0.12	0.30	1.0	1	3	3	22	SW	Agent So. Pacific Co. Agent So. Pacific Co. F. M. Payne W. C. Betteridge, Jr. Agent So. Pacific Co.	
Palisade-1	Eureka	4,821	25	34.0	+4.8	60	17	8	5	45	1.35	+0.22	0.60	9.0	5	16	0	12	S		
Quinn River Ranch‡-1	Humboldt	4,850	5																		
San Jacinto-1	Elko		2	31.4		51	8	9	8	42	1.15		0.60	6.0	3	7	12	9	S		
Tecoma-1	Elko	4,812	29	28.5	+0.4	50	14	10	5	29	1.20	+0.69	0.50	12.0	3	13	0	15			
Wells-3	Elko	5,623	35	27.1	+0.6	48	15	8	5		1.40	+0.42	0.50	14.0	7	8	2	18	SW	Agent So. Pacific Co. U. S. Weather Bureau	
Winnemucca-1	Humboldt	4,432	28	36.7	+3.7	63	20	18	5	33	0.94	+0.02	0.34	2.0	9	9	3	16	NE		
Means				33.7						37	0.88		0.36	5.8	4	12	4	12	W		
Austin-1	Lander	6,594	18																		
Eureka-1	Eureka		4																		
Potts-1	Nye	6,990	14	33.1	+6.7	53	26	8	1	28	0.45	-0.53	0.20	5.0	3	2	5	21	S	H. W. Dyer Geo. L. Broy Miss Maude Potts	
Western Section.																					
Means																					
Carson City-2	Ormsby	4,660	27	40.6	+4.1	62	26	21	1	34	1.66	+0.17	0.43	6.9	11	9	8	11	SW	C. W. Friend Thomas Dolf Geo. A. Gausser Mrs. Ross Lewers Mrs. J. H. Martin	
Fallon-1	Churchill		2	40.7		69	26	11	1	38											
Hazen-1	Churchill	4,050																			
Lewers' Ranch‡-1	Washoe	5,500	19	40.9	+6.3	60	26	24	1	31	3.90	+0.62	1.10	14.0	11	9	6	13	SW		
Martin's Ranch‡-1	Douglas	4,830	8	41.1	+7.6	69	26	20	1	44	0.87	-0.62	0.41	0.0	4	13	3	12	SW		
Reno-1	Washoe	4,532	36	41.0	+5.7	62	26	23	1	32	0.45	-1.04	0.22	T	8	9	11	8	W	U. S. Weather Bureau J. G. Young Agent So. Pacific Co. C. G. Sebnay	
Wabuska-1	Lyon	4,347	4	39.7		67	26	13	1	37	0.12		0.12	0.0	1	11	14	3	SW		
Wadsworth-1	Washoe	4,077	35	38.8	+4.0	68	18	16	1	45	0.00	-0.54	0.00	0.0	0	21	4	3	E		
Verdi-3	Washoe	4,904		39.3		65	2	8	28												
Means				40.6						37	1.17		0.38	3.5	6	12	8	8	SW		
Southern Section.																					
Belmont-1	Nye	8,132	15																	W. N. Granger Mason Galloway A. D. Campbell G. A. McAfee C. S. Gibson	
Columbia-1	Esmeralda	5,750		41.3		61	26	21	23	33	0.59		0.17	2.0	8	11	10	7	S		
Geyser c-1	Lincoln		2	35.6		60	27	8	23	38	0.75		0.35	3.0	4	6	11	11	S		
McAfee's Ranch*-1	Esmeralda	4,835	13	40.6		67	27	14	1	43	0.50		0.35	0.0	2	11	2	15	S		
Morey-1	Nye	7,384	3	35.9		56	21	14	23	31	1.36		0.60		5	7	6	15	W		
Palmetto-1	Esmeralda	6,780	17	37.6	+5.7	58	18	14	1	41	3.11	+1.43	0.98	4.0	7	8	10	10	SE	Wm. Oothout, Jr. A. A. Carman	
Pioche-1	Lincoln	6,100	2	33.7		60	27	9	23	46	1.19		0.27	3.0	10	6	4	18	S		
Means				37.4						39	1.25		0.45	2.4	6	8	7	13	S		
State Means and Extremes				36.4	+5.0	69	26	2	4	37	1.03	-0.30	0.38	4.4	5	10	6	12	SW		
Miscellaneous.																					
Modena (Utah)-1	Iron	5,470	6	35.3		60	27	18	4	32	0.47		0.30	1.8	7	2	16	10	W		U. S. Weather Bureau U. S. Weather Bureau W. M. Richards
Independence (Cal.)-1	Inyo	3,721	9	48.9		72	27	31	23	30	0.13		0.05	0.0	5	7	17	4	SE		
Laws (Cal.)-3	Inyo			46.3		68	24	22	1		0.15		0.15	0.0	1	11	4	13	NW		

REFERENCES: 1. Weather Bureau maximum and minimum thermometers in use; 2. self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3. means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station, or against the data in the body of the form, indicates the number of days missing from the record: for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

† Postoffice—Wells. ‡ Postoffice—Franktown. § Postoffice—Gardnerville. ¶ Postoffice—Amos. \* Postoffice—Dyer. † Postoffice—Hot Creek.

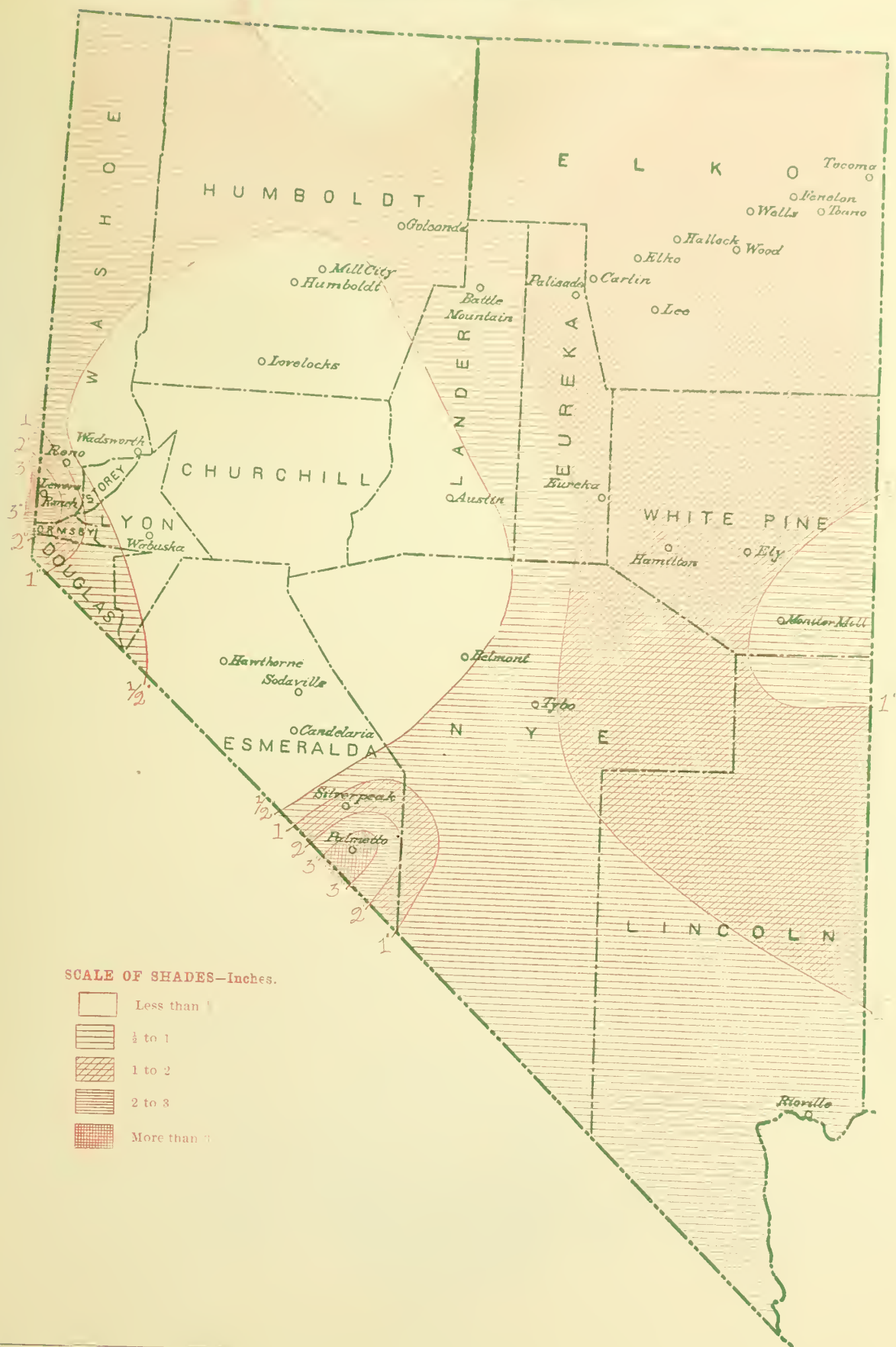


## DAILY MAXIMUM AND MINIMUM TEMPERATURES FOR FEBRUARY, 1906.

Stations.	Day of Month.																															Monthly Means.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Austin.....	Max.																																	
Battle Mountain.....	Min.	62	59	60	54	58	56	58	62	58	60	64	55	48	60	58	64	64	60	64	60	58	46	48	54	54	59	50					56.9	
Belmont.....	Max.	22	25	20	23	20	22	24	22	24	23	24	26	34	36	26	28	30	28	36	34	30	30	26	30	34	32	33	30					27.4
Carson City.....	Min.	52	50	54	55	57	57	54	49	45	51	54	56	47	52	60	55	55	58	55	55	41	41	50	52	56	62	53	37					52.0
Clover Valley.....	Max.	21	28	26	24	24	24	25	27	24	34	26	35	31	42	44	45	43	45	47	45	42	42	44	44	44	40	46	46					29.2
Clover Valley.....	Min.	45	36	39	35	36	34	36	32	34	37	35	41	42	44	45	43	45	47	45	42	42	42	44	44	44	40	46	46					39.4
Columbia.....	Max.	10	8	7	2	4	6	5	11	15	20	20	17	32	18	17	18	20	22	22	20	20	11	19	24	19	30	37					16.9	
Columbia.....	Min.	50	54	56	52	53	55	53	50	39	47	49	48	39	51	54	55	58	57	59	50	44	50	54	55	61	61	52	51					52.1
Elko.....	Max.	25	26	33	27	33	32	29	30	30	35	32	31	34	35	32	33	30	32	35	30	27	21	26	30	28	38	26					30.5	
Eureka.....	Min.																																	
Fallon.....	Max.	47	49	51	51	50	50	52	50	50	52	55	56	54	54	60	55	53	54	50	52	41	58	60	45	69	68	65					53.6	
Geyser.....	Min.	11	50	52	54	51	40	48	45	45	46	48	50	45	45	52	54	58	56	47	40	38	47	48	52	56	60						27.8	
Hazen.....	Max.	22	21	23	22	18	19	20	17																								49.5	
Humboldt.....	Min.	43	46	45	43	40	44	48	49	52	62	60	55	50	49	52	50	56	52	50	6	10	16	10	21	20	33	30	11					21.7
Lewers' Ranch.....	Max.	25	26	24	23	25	26	24	22	30	32	30	32	30	32	38	32	34	33	28	27	23	24	25	22	23	24	20						50.4
Lovelock.....	Min.	50	50	50	55	50	55	55	50	55	55	55	55	55	55	50	50	55	58	55	33	43	47	53	60	49	39						51.3	
Martin's Ranch.....	Max.	20	20	25	25	25	25	28	25	30	30	30	30	30	30	22	22	20	20	20	20	20	20	20	20	20	25	20	15					30.5
McAfee's Ranch.....	Min.	57	57	63	59	60	63	67	66	60	64	60	63	57	65	58	66	66	67	67	61	51	51	55	62	68	66	49					60.9	
Morey.....	Max.	56	49	58	59	55	55	58	57	51	45	33	52	48	55	50	58	61	64	66	56	52	55	57	61	64	67	45					27.3	
Palmetto.....	Min.	14	14	27	22	21	21	16	17	28	34	35	18	25	36	35	29	23	19	21	36	35	25	15	20	21	27	29					56.0	
Palisade.....	Max.	53	51	50	52	50	53	51	46	46	47	46	47	46	39	44	47	48	47	51	52	51	50	42	46	52	51	32					47.3	
Pioche.....	Min.	32	26	26	25	25	24	25	24	25	24	25	23	21	28	24	28	26	23	21	25	19	14	20	25	23	30	17					24.5	
Potsdam.....	Max.	52	52	55	55	48	44	48	52	45	42	45	42	45	42	48	52	53	58	58	55	45	52	55	58	56	31						50.0	
Potsdam.....	Min.	14	18	28	25	23	28	25	21	18	25	30	24	27	32	32	28	27	25	20	20	30	32	30	18	20	34	25					25.2	
Potsdam.....	Max.	54	54	50	50	53	48	50	50	42	41	46	51	45	42	43	43	43	43	43	43	43	43	43	43	43	43	43					49.0	
Potsdam.....	Min.	10	36	15	17	8	12	13	13	15	12	19	16	24	24	19	19	19	20	18	17	22	24	20	18	24	27	27					19.0	
Potsdam.....	Max.	51	52	52	53	50	50	50	51	48	42	45	48	42	41	50	49	55	56	56	49	9	6	17	22	53	60	53					50.4	
Potsdam.....	Min.	20	19	17	18	13	16	16	11	12	17	21	18	20	22	23	17	11	19	23	18	19	9	22	12	23	16						17.0	
Potsdam.....	Max.	36	39	40	39	40	43	44	43	45	42	42	44	43	42	43	43	43	43	43	43	43	43	43	43	43	43	43					43.8	
Potsdam.....	Min.	8	11	17	12	16	19	20	24	26	25	26	22	26	30	21	29	24	28	32	26	21	16	20	26	26	35	21					22.4	
Quinn River Ranch.....	Max.																																	
Reno.....	Min.	52	53	56	56	56	57	56	55	50	47	50	54	55	49	49	56	46	56	59	58	43	44	49	54	55	62	52					52.2	
San Jacinto.....	Max.	23	28	30	26	25	26	25	25	29	27	33	27	40	38	34	34	34	34	34	32	32	37	37	37	37	37	37					29.8	
Tecoma.....	Min.	12	11	14	12	13	10	10	9	15	15	23	28	32	33	24	25	26	26	29	29	24	23	25	21	23	30						41.8	
Wabaska.....	Max.	32	30	29	29	28	28	34	30	32	32	41	41	40	40	47	46	40	40	42	42	42	42	42	42	42	42	42					20.9	
Wabaska.....	Min.	15	15	11	13	10	12	14	15	17	20	22	22	21	20	20	20	20	20	20	22	23	23	25	23	33	33	22					20.1	
Wadsworth.....	Max.	49	48	52	52	52	52	52	50	50	51	50	53	55	52	56	54	56	54	56	56	48	50	57	60	54	67	64					53.5	
Wadsworth.....	Min.	13	22	18	16	17	17	17	18	18	18	18	18	18	18	18	17	17	17	17	17	17	17	17	17	17	17	17					25.9	
Winnemucca.....	Max.	55	59	59	52	56	50	56	59	58	57	50	58	58	61	57	62	68	68	68	68	68	68	68	68	68	68	68					56.9	
Winnemucca.....	Min.	16	19	21	18	20	18	21	21	21	24	22	19	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22					20.6	
Winnemucca.....	Max.	43	45	45	43	42	39	45	44	45	44	46	47	50	45	45	45	45	45	45	45	45	45	45	45	45	45	45					46.9	
Winnemucca.....	Min.	22	24	19	19	18	21	21	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19					26.5	
Miscellaneous.	Max.	35	28	45	34	31	35	32	35	43	44	46	48	44	50	51	55	58	56	57	49	40	45	50	54	56	60	49					45.5	
Modena (Utah).....	Min.	22	20	24	18	21	22	23	21	19	22	22	28	34	37	29	26	28	26	28	26	25	18	27	31	27	29	26					25.1	
Independence (Cal.).....	Max.	66	60	61	61	60	58	59	57																									



# TOTAL PRECIPITATION FOR FEBRUARY, 1906.





## DAILY PRECIPITATION FOR FEBRUARY, 1906.

Stations.	Day of Month.																															Total.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Northern Section.																																		
Battle Mountain										.10								.12		T	.20	.30						.05	.20				0.92	
Beowawe												.10										.20	.10	.10									0.55	
Carlin												.10			.27				.41			.38	.07	.10					.33				1.66	
Glover Valley																		.55	.20	.22	.20	.20							.55			2.14		
Crane's Ranch																																		
Elko																																		
Fenelon																																		
Golconda																																		
Halleck																																		
Humboldt									T												T	T	T											
Lovelock																																		
Mill City																																		
Palisade												T		T	.15							.60												
Quinn River Ranch															.10						.45	T	T											
San Jacinto																																		
Tecoma										.50																								
Wells										.20	.30	.10						.50	.30															
Winnemucca										T		T		.01	.04	.25	.13			.06	T	.05	.06	T									1.15	
Central Section.																																		
Austin																																		
Eureka																																		
Potts														T																				
Western Section.																																		
Carson City										.10	.11				.18	.11	.03	T		.42	.43	.03	.10	T									1.66	
Hazen											.02				.12	1.10																		
Lewers' Ranch																	T	.09	.40	.24	.41	.05	.70	.60	.10	.50							3.90	
Martin's Ranch											.21						T	T															0.87	
Reno											.03	.01		.03			.10	.01		.20	.02	T	T										0.45	
Wabuska																	T																0.12	
Wadsworth																																		0.00
Verdi																																		
Southern Section.																																		
Belmont																																		
Columbia						.03																												
Geyser									.03	.12	.17		T	.05	.07			T															0.59	
McAfee's Ranch										.35	.15		.35		.05					.25	T												0.75	
Morey													T	.26						.15	T												0.50	
Palmetto									T	.30	.98	T	.40	.68	T		.10			.50	T	.15	T										1.36	
Pioche						.15		T		.27	.06	.01	.07	.13	.16				.02		.24	.15											3.11	
Miscellaneous.																																		
Modena (Utah)										.05		.03	T	.02	.05				.01		.30	.01											0.47	
Independence (Cal.)						.02			.05	.01	.01			.04						T													0.13	
Laws (Cal.)																			.15														0.15	
Hobart Mills (Cal.)									T					.32	.82		.70	.29	.35	.22	1.50	.40	.40	.50								6.45		
Donner (Cal.)									T	T					.72		.02	T	.40	T	1.80	.53	.18	T	.30	T							5.27	
Taboe (Cal.)										.10			.60	.30				.40		1.30	1.40	.30											5.10	

T indicates trace. \* Amount included in that of the following day

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, -  - ANDREW MAUTE, SUPT.

1906



U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR MARCH, 1906.

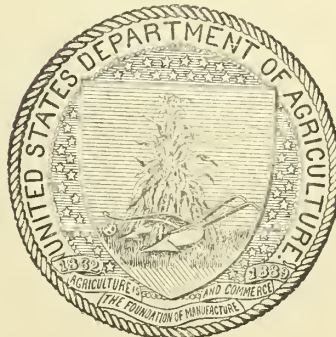
NEVADA SECTION  
OF THE  
CLIMATOLOGICAL SERVICE  
OF THE  
WEATHER BUREAU

IN COOPERATION WITH THE  
NEVADA STATE WEATHER SERVICE  
(CHARLES W. FRIEND, Director.)

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF  
WILLIS L. MOORE  
CHIEF U. S. WEATHER BUREAU

BY  
H. F. ALPS  
ACTING SECTION DIRECTOR



CARSON CITY, NEVADA:

April 21, 1906.



A hand-drawn map of Nevada, showing county boundaries and names: WASHOE, HUMBOLDT, ELKO, TEACOMA, FENELON, WELLS, IBANO, GOLCONDE, HALLOCK, WOOD, MILL CITY, HUMBOLDT, LOVELOCKS, BATTLE MOUNTAIN, PALISADE, CARLIN, LEE, EUREKA, BUREHA, WHITE PINE, HAMILTON, ELY, MONTER MOUNTAIN, BELMONT, TYBO, N. Y. E., LINCOLN, RIVILLE, DOUGLAS, LYON, WADSWORTH, RENO, LEMERO, KANACH, STOREY, REMSBY, WATKINS, CHURCHILL, J. LANDER, and ESMEERALDA. The map includes several red arrows indicating wind direction, with some labeled '40°'. Red curved lines represent isotherms, with labels '35', '40', and '40°'. A red circle is drawn around Battle Mountain. The map is on a yellowed, aged paper.

The arrows fly with the wind, and indicate the prevailing direction for the month

The arrows fly with the wind, and indicate the prevailing direction for the month



U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,

HENRY F. ALPS, Acting Section Director.

VOL. XX.

RENO, NEVADA, MARCH, 1906.

No. 3.

## GENERAL SUMMARY.

## Pressure.

The mean pressure for the State, reduced to sea level, was 29.92 inches. The highest during the month was 30.47 inches, at Winnemucca, on the 7th, and the lowest was 28.95 inches, at Winnemucca, on the 12th.

## Temperature.

The mean temperature for the State was 38.5°, which is 0.1° below the normal for the month, and 3.3° lower than the mean for the corresponding month of 1905. The mean temperature for the northern section was 37.7°; for the central section, 33.6°; for the western section, 41.9°; and for the southern section, 36.8°. The highest monthly mean temperature was 44.8°, at Martin's Ranch, near Gardnerville, Douglas County, and at Beowawe, Eureka County. The lowest monthly mean was 33.4°, at Pioche, Lincoln County. The highest temperature was 83°, at Martin's Ranch, near Gardnerville, Douglas County, on the 9th. The lowest temperature was -15°, at San Jacinto, Elko County, on the 16th. The absolute range of temperature for the State was 98°; the greatest daily range was 60°, at Martin's Ranch, Douglas County, on the 9th.

The highest temperatures for the month generally occurred on the 8th, 9th, and 10th, although the maximum was recorded at five stations on the 29th. The lowest temperatures occurred at eleven stations on the 16th, six stations on the 2d, five stations on the 5th, and four stations on the 19th.

## Precipitation.

The average precipitation for the State was 1.68 inches, which is 0.35 inch above the normal for the month, and 0.25 inch in excess of the average for the corresponding month of 1905. The average precipitation for the northern section was 1.27 inches; for the central section, 1.25 inches; for the western section, 1.15 inches; and for the southern section, 3.24 inches. The greatest monthly amount was 6.16 inches, at Morey, Nye County. The least monthly amount was a trace, at Lovelock, Humboldt County, and at Wabuska, Lyon County. The greatest amount recorded in twenty-four hours was 2.00 inches, at Lewers' Ranch, near Franktown, Washoe County, on the 13th, and at Wells, Elko County, on the 15th. The average number of rainy days was 7.

The precipitation was well distributed throughout the month, excepting from the 5th to the 10th, inclusive, when the only precipitation recorded in the State was 0.50 inch, at Elko, on the 10th, and a trace, at Humboldt, on the 10th, and at Lovelock, on the 5th.

## Wind.

The prevailing direction of the wind was from the west.

The total movement of the wind at Reno was 5,414 miles; the total movement at Winnemucca was 6,255 miles. The maximum velocity at Reno was 37 miles per hour from the southwest on the 10th; the maximum velocity at Winnemucca was 51 miles per hour from the southeast on the 12th. The average velocity was 7.8 miles per hour.

## Sunshine and Cloudiness.

The average number of clear days was 10, partly cloudy days 9, and cloudy days 12.

## COMPARATIVE DATA FOR MARCH.

Year.	Temperature.				Number of Days.				Prevailing Wind.
	Mean.	Highest.	Lowest.	Average Precipitation.	With Precipitation.	Clear.	Partly Cloudy.	Cloudy.	
1889	44.1	85	12	1.45	—	—	—	—	—
1890	39.0	82	-15	1.71	—	—	—	—	—
1891	38.9	78	2	1.55	6	—	—	—	SW
1892	40.3	78	-2	1.81	8	—	—	—	W
1893	35.9	85	-21	1.90	7	—	—	—	S
1894	38.4	88	-13	1.02	5	—	—	—	SW
1895	37.7	80	-23	0.82	4	11	9	8	W
1896	39.4	90	-18	1.15	—	—	—	—	—
1897	30.9	80	-19	1.39	—	—	—	—	—
1898	35.0	79	-10	0.63	4	14	9	8	W
1899	38.6	79	4	1.83	7	9	8	14	SW
1900	44.2	81	3	0.51	3	17	5	9	SW
1901	38.9	90	0	0.59	4	15	7	9	W
1902	35.2	69	0	1.47	6	11	8	12	SW
1903	38.7	90	-8	1.41	5	12	7	12	S
1904	39.7	80	0	1.69	8	8	8	15	SW
1905	41.8	82	3	1.43	6	12	6	13	SW
1906	38.5	83	-15	1.68	7	10	9	12	W

## MISCELLANEOUS PHENOMENA.

*Fog*—Carlin, 21st; Morey, 22d, 26th, 31st; Palmetto, 11th, 23d; Reno, 21st.

*Hail*—Columbia, 17th, 26th, 31st; Elko, 13th, 14th; Fennell, 25th; Hazen, 31st; Morey, 12th; Palisade, 25th; Palmetto, 25th.

*Sleet*—Halleck, 30th, 31st; Morey, 12th; Potts, 13th.

*Halo, Solar*—Reno, 8th.

*Thunderstorm*—Geyser, 22d, 31st; Palmetto, 27th; Winnemucca, 24th.

*High Winds*—Carlin, 10th, 11th, 12th; Clover Valley, 1st, 12th; Columbia, 1st, 3d, 11th, 12th; Halleck, 10th; Hazen, 1st, 3d, 12th, 24th, 26th, 29th; Lewers' Ranch, 10th, 11th, 12th, 13th, 14th, 29th, 30th; Mill City, 10th, 11th, 12th; Morey, 30th, 31st; Palisade, 10th, 12th, 23d, 30th; Palmetto, 1st, 2d, 10th, 16th, 22d, 30th, 31st; Pioche, 11th, 12th, 13th; Potts, 1st, 2d, 3d, 9th, 10th, 11th, 12th, 13th, 30th; Reno, 3d, 10th, 11th, 12th, 13th, 14th, 23d, 31st; Wabuska, 10th, 11th, 12th, 13th, 14th, 15th, 16th; Wadsworth, 2d; Winnemucca, 12th.

## OBSERVERS' REMARKS.

CLOVER VALLEY—The month was very cold and stormy, and unfavorable for farm work. A. H. WISEMAN.

EUREKA—The 16th was the coldest that it has been here for many years at this time of the season. CLAY SIMMS.

GEYSER—This has been the hardest month of the winter on stock. A. D. CAMPBELL.

HAZEN—High westerly winds prevailed during the month. GEO. A. GANSER.

MCAFEE'S RANCH—The snow is deep on the mountains, insuring plenty of water. G. A. MCAFEE.



**PIOCHE**—The heaviest storm in years occurred twenty-five miles south of here the latter part of the month, causing a delay of eight to ten days in the mails. A. A. CARMAN.

**WABUSKA**—From the 10th to the 16th unusually high cold winds prevailed, doing considerable damage to haystacks. J. G. YOUNG.

#### DELAYED REPORTS.

Ely (White Pine County) report for February, 1906: Mean temperature, 32.8°; highest, 53°, on the 26th; lowest, 8°, on the 1st; greatest daily range, 35°.

Quinn River Ranch (Humboldt County) report for March, 1906: Mean temperature, 38.5°; highest, 63°, on the 8th; lowest, 0°, on the 16th; greatest daily range, 36°; total precipitation, 1.33 inches; greatest amount in twenty-four consecutive hours, 0.37 inch, on the 14th; number of days with .01 inch or more of precipitation, 10; number of clear days, 9; partly cloudy, 10; cloudy, 12; prevailing wind direction, west.

#### SECTION NOTES.

A regular Coöperative Meteorological Station of the Weather Bureau has been established at Logan, Lincoln County. Mr. Charles G. Arney, who has charge of the Lincoln County Experiment Station, is the Observer. Logan is located in a valley where the climate is very different from that of other stations in the State, and the records there will be of much interest and value.

Mr. H. W. Dyer, Coöperative Observer at Austin, Lander County, has resigned. Dr. W. H. Heinzmann has been appointed as his successor, and the records of the Austin station will be printed in the next issue of this bulletin.

Mr. George L. Broy, Coöperative Observer at Eureka, Eureka County, has resigned, and Mr. Clay Simms has been appointed as Coöperative Observer at that place. The observational work at Eureka was resumed March 13th.

Mr. R. W. Hawley has succeeded Mr. Thomas Dolf as Coöperative Observer at Fallon, Churchill County. Fallon is a very important station, being located in the central portion of the large area of land to be irrigated by the waters of the Carson and Truckee Rivers, and accurate meteorological records at this station will be of great value.

The highest temperature recorded on Mount Rose during the month was 44°, on the 7th, and the lowest was 3°, on the 13th.

#### SNOWFALL IN THE MOUNTAINS.

The snowfall for March was a little more than the average, and the total amount of well-packed snow in the mountains at the close of the month was reported to be from one to three times the average. There were from twenty to sixty feet of solidified snow in the gulches. In the drainage areas of the Truckee, Carson, and Walker Rivers, the depth of snow at the close of March was much greater than at the close of February. In the region drained by the Humboldt River, the depth of snow has not changed materially, due to the fact that the greater part of the precipitation was rain and moist snow, causing the drifts to settle and solidify. The icy condition of the snow and the ample supply that is stored in the mountains give reasonable assurance of a good supply of water for the entire season, and correspondents generally predict the largest flow that has occurred in many years.

#### CORRESPONDENTS' REMARKS.

##### Humboldt River Drainage.

**BEOWAWE**—The water supply will be plentiful.

**BULLION**—Considerable rain has fallen in this section during the month, melting the snow in the foothills and causing a large flow of water.

**DEETH**—The water flow should be about three times the average.

**WINNEMUCCA**—There is already sufficient snow packed in the mountain gulches to insure a greater amount of water this season than the average; ground that has not been irrigated for years, it is thought, will be well watered this year.

##### Truckee River Drainage.

**MARMOL**—There is more snow in the mountains than there has been for ten years.

**SLIDE MOUNTAIN**—There is more icy snow in the mountains than I have ever seen before.

**TAHOE**—The winter has been heavy and there will be a large flow of water.

##### Carson River Drainage.

**DAYTON**—There is a good deal of snow on the shady side of the mountains, and there will be more than the average amount of water.

**WOODFORDS**—The snow is very solid.

##### Walker River Drainage.

**MASON VALLEY**—While we were getting but a trace of rain in the valley during several storms, considerable snow fell in the mountains.

**PINEGROVE**—There were but five days in the month on which snow did not fall.

TABLE OF SNOWFALL.

Station.	County.	Compared with average.	On Ground March 31st.	
			At station.	At or near summit of mountains.
			Inches.	Inches.
<i>Humboldt River Drainage:</i>				
Beowawe .....	Lander .....	More .....	0	4 to 7
Bullion .....	Elko .....	More .....	0	30
Charleston .....	Elko .....	More .....	12	12
Deeth .....	Elko .....	More .....	0	420-480
Halleck .....	Elko .....	More .....	0	.....
Lamoille .....	Elko .....	More .....	0	120
Paradise Valley .....	Humboldt .....	More .....	0	24 to 72
Rebel Creek .....	Humboldt .....	More .....	0	24
Tuscarora .....	Elko .....	More .....	0	72 to 84
Winnemucca .....	Humboldt .....	More .....	0	.....
<i>Truckee River Drainage:</i>				
Boca, Cal. ....	Nevada .....	More .....	12	36
Donner, Cal. ....	Nevada .....	More .....	45	216
Floriston, Cal. ....	Nevada .....	More .....	0	48
Glenbrook .....	Douglas .....	More .....	24	72 to 84
Hobart Mills, Cal. ....	Nevada .....	More .....	11	90 to 95
Marmol .....	Washoe .....	More .....	0	72-240
Slide Mountain .....	Washoe .....	More .....	0	192
Tahoe, Cal. ....	Placer .....	More .....	84	180
Truckee, Cal. ....	Nevada .....	More .....	4	192
Washoe .....	Washoe .....	Average .....	0	180
<i>Carson River Drainage:</i>				
Dayton .....	Lyon .....	More .....	0	.....
Markleeville, Cal. ....	Alpine .....	More .....	27	240
Virginia City .....	Storey .....	More .....	0	72
Woodfords, Cal. ....	Alpine .....	More .....	0	152
<i>Walker River Drainage:</i>				
Bodie, Cal. ....	Mono .....	More .....	40	360
Bridgeport, Cal. ....	Mono .....	More .....	0	240
Lundy, Cal. ....	Mono .....	More .....	84	480
Mason Valley .....	Lyon .....	More .....	0	84
Pinegrove .....	Esmeralda .....	More .....	0	.....
Schurz .....	Esmeralda .....	More .....	15	12 to 18
Smith .....	Lyon .....	More .....	0	.....
Sweetwater .....	Esmeralda .....	More .....	1	48 to 60
Topaz, Cal. ....	Mono .....	More .....	0	108
<i>Reese River Drainage:</i>				
Austin .....	Lander .....	More .....	6	24
Berlin .....	Nye .....	More .....	0	30 to 36
Eureka .....	Eureka .....	Average .....	0	36 to 48
Galena .....	Lander .....	Average .....	0	.....





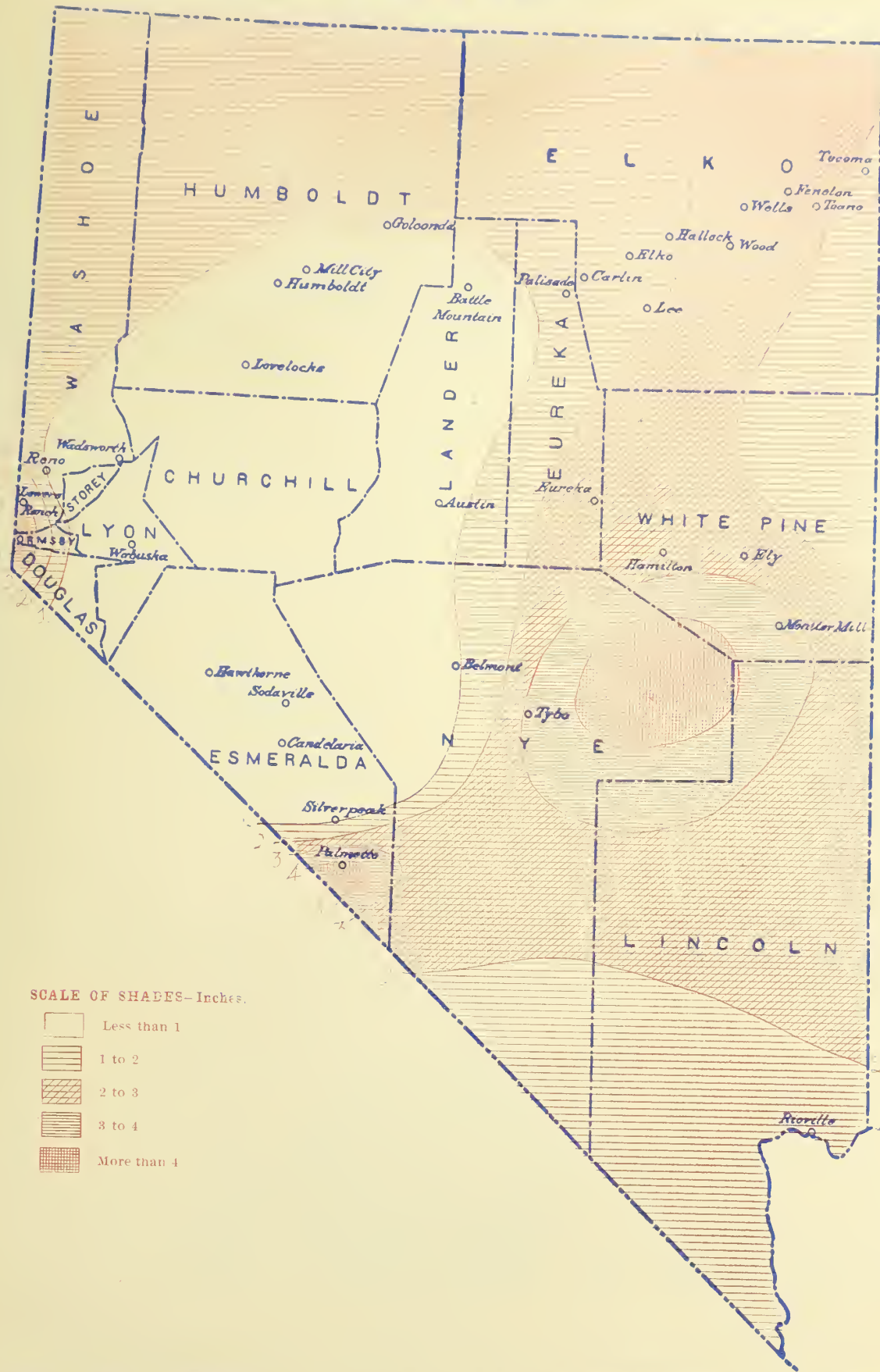


DAILY MAXIMUM AND MINIMUM TEMPERATURES FOR MARCH, 1906.

Stations.	Day of Month.																															Monthly means.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Austin.	Max.																																	
Battle Mountain.	Min.	55	48	56	60	59	68	74	73	69	66	60	45	46	42	38	46	56	60	68	70	64	66	68	68	68	65	69	72	65	65	53	60.1	
Belmont.	Max.	24	21	34	28	24	30	29	30	29	40	39	24	26	20	8	14	18	34	35	40	30	33	34	30	28	24	25	34	32	30	28.2		
Belmont.	Min.																																	
Carson City.	Max.	41	46	44	55	61	67	69	78	62	50	43	40	41	36	33	39	40	51	53	60	58	55	55	55	52	51	55	61	62	55	45	51.7	
Carson City.	Min.	18	21	33	26	25	26	27	26	40	41	26	24	31	25	19	20	24	18	31	34	36	35	35	35	35	35	31	26	30	44	31	29.1	
Clover Valley.	Max.	37	37	40	43	40	45	52	53	54	51	53	50	33	30	25	34	27	42	59	54	57	57	57	57	51	49	53	54	52	58	52	46.5	
Clover Valley.	Min.	19	7	22	28	14	11	16	19	23	39	25	17	20	14	-13	3	9	9	26	33	36	29	38	31	27	32	22	22	35	32	22	29.1	
Columbia.	Max.	35	43	45	39	49	57	65	67	64	65	53	47	50	51	33	31	42	49	56	59	61	52	45	56	48	53	58	62	58	51	51.5		
Columbia.	Min.	19	13	28	22	19	25	31	30	32	34	31	24	25	29	20	27	14	21	34	32	41	40	39	38	35	32	27	32	43	36	29.3		
Elko.	Max.																																	
Elko.	Min.																																	
Eureka.	Max.																																	
Eureka.	Min.																																	
Fallon.	Max.																																	
Fallon.	Min.																																	
Geyser.	Max.	40	37	42	45	53	60	65	66	64	60	39	38	46	40	25	26	35	42	48	53	51	57	50	52	46	50	55	58	64	50	49.1		
Geyser.	Min.	11	7	15	24	12	18	24	28	20	32	53	47	51	38	-1	10	-12	18	23	25	25	27	35	32	29	26	20	23	21	30	55.9		
Hazen.	Max.	43	48	50	48	55	58	66	69	69	70	62	53	47	38	35	41	44	55	60	66	60	66	60	62	60	60	66	68	64	50	59.9		
Hazen.	Min.	24	12	36	20	22	24	36	35	37	40	34	11	8	25	12	22	15	22	36	40	46	50	48	52	46	45	46	48	50	52	48.9		
Humboldt.	Max.	57	59	50	53	56	54	65	60	52	50	51	45	45	36	32	33	33	40	23	28	38	35	38	31	32	35	36	37	40	30.6			
Humboldt.	Min.	25	28	30	34	33	35	40	36	33	30	30	25	22	22	13	15	15	20	23	28	38	35	38	57	57	50	62	64	63	55	53	52.5	
Lewers' Ranch.	Max.	40	48	46	40	58	64	68	69	66	59	57	44	35	30	41	33	34	38	54	52	58	60	60	55	57	50	62	64	63	55	53	52.5	
Lewers' Ranch.	Min.	18	20	35	27	25	29	30	31	32	38	24	22	29	25	17	21	20	14	33	34	36	35	34	34	34	28	32	28	28	41	30	28.8	
Lovelock.	Max.	55	50	55	45	50	55	60	70	50	55	50	50	45	50	50	50	45	45	50	50	45	50	55	50	55	50	60	55	60	55	55	49.1	
Lovelock.	Min.	15	15	15	15	11	20	25	25	30	35	20	25	20	15	20	20	10	10	10	20	10	10	10	10	20	20	30	30	25	30	25	29.2	
Martin's Ranch.	Max.	51	46	52	56	70	66	79	81	83	64	66	54	50	50	50	54	55	72	59	69	63	67	66	66	62	67	67	69	64	70	62.4		
Martin's Ranch.	Min.	17	20	23	23	23	22	24	24	24	24	28	31	41	31	21	18	19	15	28	33	33	37	37	33	32	37	27	25	28	34	30	27.3	
McAfee's Ranch.	Max.	42	48	50	47	57	61	69	70	70	71	60	49	53	59	59	41	46	47	53	56	65	68	58	53	62	56	62	67	67	55	57.4		
McAfee's Ranch.	Min.	20	4	28	22	19	19	15	15	15	16	38	44	43	38	22	27	3	41	46	36	30	37	45	46	39	40	32	17	21	50	40	27.1	
Morey.	Max.	37	35	34	38	44	57	59	63	61	58	51	38	44	43	38	22	27	3	41	46	36	30	37	45	46	39	40	32	17	21	50	40	27.1
Morey.	Min.	11	4	21	17	16	25	27	30	32	26	28	20	16	23	10	10	2	9	24	29	32	30	31	28	30	24	24	26	35	45	41	45.5	
Palmetto.	Max.	33	43	36	42	48	58	64	65	68	42	40	42	40	38	26	17	10	2	9	24	29	32	30	31	28	30	24	24	26	35	27	22.6	
Palmetto.	Min.	13	7	20	12	14	18	24	26	24	26	25	26	28	24	20	20	15	28	30	30	30	33	35	35	35	30	23	26	35	35	24.2		
Palisade.	Max.	44	50	46	40	49	50	58	56	62	67	60	45	43	42	40	37	43	45	53	74	63	66	60	62	61	52	58	62	58	69	54.0		
Palisade.	Min.	21	12	28	20	29	18	24	24	33	40	41	48	45	44	38	40	38	45	50	52	58	60	60	62	61	52	58	62	58	69	54.0		
Pioche.	Max.	34	42	40	41	41	49	59	65	66	66	58	41	48	45	44	38	40	38	45	50	52	58	60	60	62	61	52	58	62	58	69	54.0	
Pioche.	Min.	8	5	12	14	12	13	16	16	22	23	22	19	25	14	20	1	4	-5	2	15	20	20	22	27	26	22	21	19	16	30	26	16.4	
Potts.	Max.	25	40	40	36	38	49	56	58	59	58	51	46	46	43	37	26	28	37	48	54	56	51	50	46	43	43	55	58	50	48	45.6		
Potts.	Min.	13	4	26	15	12	17	20	24	27	26	38	37	17	14	24	-2	7	-7	0	29	32	33	30	32	30	30	24	20	23	40	32	21.5	
Quinn River Ranch.	Max.																																	
Quinn River Ranch.	Min.																																	
Reno.	Max.	39	44	49	43	56	61	69	70	69	60	50	44	42	43	36	32	39	41	54	54	60	58	55	54	54	52	56	60	63	54	44	51.8	
Reno.	Min.	20	21	31	28	28	26	29	31	31	40	40	24	24	32	25	20	24	23	18	34	33	38	35	37	34	35	28	26	31	40	27	29.5	
San Jacinto.	Max.	48	40	42	46	48	50	52	54	52	51	41	50	35	45	31	25	30	32	35	45	53	55	57	56	55	55	50	51	46	45	46.2		
San Jacinto.	Min.	20	8	22	22	24	20	26	20	22	21	9	20	11	23	-9	-3	26	31	35	40	60	60	61	65	50	48	60	60	70	65</			



TOTAL PRECIPITATION FOR MARCH, 1906.





## DAILY PRECIPITATION FOR MARCH, 1906.

Stations.	Day of Month.																															Total																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Battle Mountain			.20										.05	.10	.20						.05					.10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

T indicates trace. \* Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE. -  - ANDREW MAUTE, SUPT.

1906



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U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR APRIL, 1906.

NEVADA SECTION  
OF THE  
CLIMATOLOGICAL SERVICE  
OF THE  
WEATHER BUREAU

IN COOPERATION WITH THE  
NEVADA STATE WEATHER SERVICE  
(CHARLES W. FRIEND, Director.)

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF  
WILLIS L. MOORE  
CHIEF U. S. WEATHER BUREAU

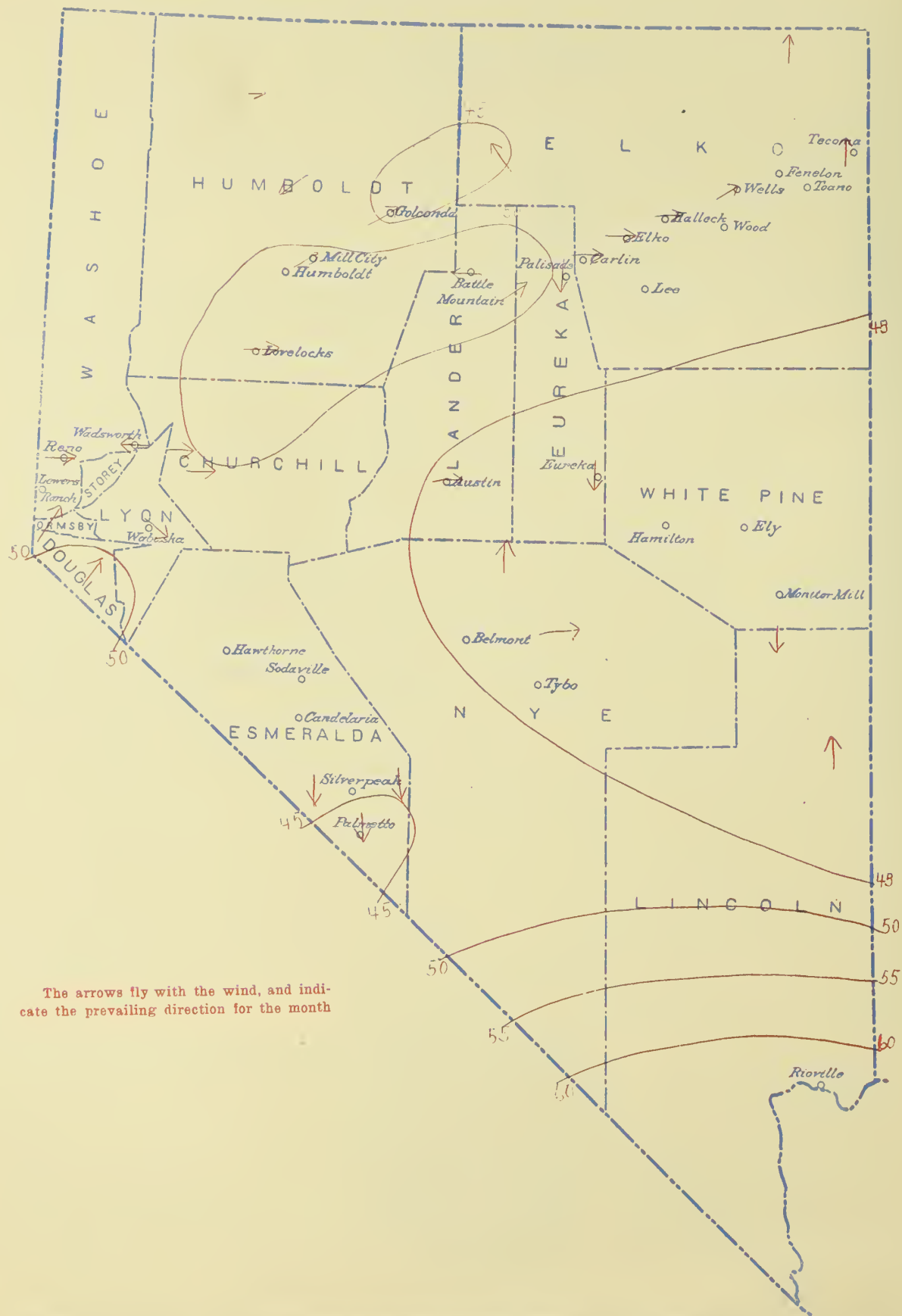
BY  
H. F. ALPS  
ACTING SECTION DIRECTOR



CARSON CITY, NEVADA:  
May 26, 1906.



# MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR APRIL, 1906



The arrows fly with the wind, and indicate the prevailing direction for the month



U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,

HENRY F. ALPS, Acting Section Director.

VOL. XX.

RENO, NEVADA, APRIL, 1906.

No. 4.

## GENERAL SUMMARY.

## Pressure.

The mean pressure for the State, reduced to sea-level, was 29.99 inches. The highest during the month was 30.34 inches, at Winnemucca, on the 18th, and the lowest was 29.59 inches, at Reno and Winnemucca, on the 28th.

## Temperature.

The mean temperature for the State was 47.6°, which is 0.9° above the normal for the month, and 0.6° higher than the mean for the corresponding month of 1905. The mean temperature for the northern section was 49.4°; for the central section, 42.5°; for the western section, 48.8°; and for the southern section, 43.2°. The highest monthly mean temperature was 54.7°, at Beowawe, Eureka County. The lowest monthly mean was 41.0°, at Potts, Nye County, and at Morey, Nye County. The highest temperature was 90°, at Martin's Ranch, near Gardnerville, Douglas County, on the 20th. The lowest temperature was 9°, at Palisade, Eureka County, on the 4th. The absolute range of temperature for the State was 81°; the greatest daily range was 60°, at Battle Mountain, Lander County, on the 8th.

There was a period of cold weather from the 1st to the 4th, inclusive, and the lowest temperatures for the month were generally recorded on these dates, the minimum at 14 stations occurring on the 4th. A period of warm weather extended from the 19th to the 22d, inclusive, when the maximum temperatures for the month were recorded, the date at 14 stations being the 20th; and at 10 stations the 21st.

## Precipitation.

The average precipitation for the State was 1.30 inches, which is 0.49 inch above the normal for the month, and 0.46 inch in excess of the average for the corresponding month of 1905. The average precipitation for the northern section was 0.96 inch; for the central section, 1.44 inches; for the western section, 1.03 inches; and for the southern section, 2.28 inches. The greatest monthly amount was 4.33 inches, at Palmetto, Esmeralda County. The least monthly amount was a trace, at Humboldt and Lovelock, Humboldt County. The greatest amount recorded in twenty-four hours was 1.50 inches, at Golconda, Humboldt County, on the 23d. The average number of rainy days was 5.

Precipitation was general on the 1st, 2d, 3d, 10th, 11th, 23d, 24th, 27th, 28th, 29th, and 30th, and light to heavy in the south portion on the 5th, 6th, and 7th. From the 12th to the 21st, inclusive, there was no precipitation, except light rain, at Morey, on the 17th, and at Palmetto, on the 16th and 17th.

The average precipitation for the State has been exceeded in April but twice in the past seventeen years; in 1900 it was 1.98 inches, and in 1891 it was 1.51 inches.

## Wind.

The prevailing direction of the wind was from the west. The total movement of the wind at Reno was 4,752 miles; the total movement at Winnemucca was 5,260 miles. The maximum velocity at Reno was 28 miles per hour, from the south, on the 22d; the maximum velocity at Winnemucca was 32 miles per hour, from the northeast, on the 3d. The average velocity was 7.0 miles per hour.

## Sunshine and Cloudiness.

The average number of clear days was 13, partly cloudy days 7, and cloudy days 10.

## COMPARATIVE DATA FOR APRIL.

Year.	Temperature.			Average precipitation.	Number of days.				Prevailing wind
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1880	53.5	100	16	0.45					S
1890	49.6	96	8	0.72					S
1891	48.3	88	5	1.51	5				W
1892	44.9	84	6	0.62	4				SW
1893	41.8	78	0	1.14	6				SW
1894	47.6	90	10	0.59	4				W
1895	48.2	95	1	0.42	2	16	7	7	
1896	41.7	89	0	1.00					
1897	47.3	91	9	0.37					
1898	51.1	103	12	0.71	2	17	7	6	W
1899	47.9	87	12	0.37	2	15	8	7	W
1900	43.8	82	10	1.98	7	6	7	17	W
1901	45.3	98	-2	0.59	3	15	6	9	SW
1902	45.8	84	14	0.75	3	11	9	10	SW
1903	45.2	101	1	0.47	2	17	6	7	SW
1904	45.4	97	10	0.66	3	15	7	8	SW
1905	47.0	85	10	0.84	4	14	7	9	SW
1906	47.6	90	9	1.30	5	13	7	10	W

## MISCELLANEOUS PHENOMENA.

*Fog*—Morey, 28th; Mount Rose, 3d; Squaw Valley, 25th.

*Hail*—Columbia, 3d, 23d, 28th, 29th; Fenelon, 1st, 25th, 29th; Morey, 6th.

*Halo, Solar*—Carson City, 13th, 26th; Reno, 13th, 26th.

*Halo, Lunar*—Carson City, 14th; Morey, 9th.

*Earthquakes*—Carson City, 18th, 23d; Hazen, 18th; Lewers' Ranch, 18th; Reno, 18th.

*Thunderstorms*—Battle Mountain, 29th; Carson City, 29th; Columbia, 10th; Eureka, 10th; Geyser, 23d, 30th; Hazen, 29th; Lovelock, 24th; McAfee's Ranch, 10th, 30th; Morey, 6th, 10th; Palmetto, 10th, 17th; Reno, 29th; Winnemucca, 29th.

*High Winds*—Austin, 1st, 28th; Clover Valley, 3d, 9th, 18th, 21st, 22d, 23d, 24th, 30th; Columbia, 1st, 22d, 27th; Fenelon, 3d, 7th, 22d, 23d, 24th, 25th, 26th; Halleck, 3d; Hazen, 2d, 3d, 22d, 23d, 24th, 27th; Logan, 18th, 22d, 23d, 28th; Morey, 1st, 22d; Palmetto, 1st, 2d, 11th, 22d, 23d, 27th; Potts, 21st, 22d, 25th, 27th, 29th; Reno, 3d, 22d; San Jacinto, 1st, 3d; Winnemucca, 3d.

## OBSERVERS' REMARKS.

CARSON CITY—On April 18th, at 5 hours, 12 minutes, 25 seconds, a. m., 120th meridian time, an earthquake occurred. The movement was from west to east, and the duration was 45 seconds. No damage was done except the stopping of a few clocks. A light earthquake tremor occurred during the night of the 23d.

C. W. FRIEND.

CLOVER VALLEY—It has been a cold month, and the snow melted slowly.

A. H. WISEMAN.

FALLON—Snow flurries were frequent on the 1st.

R. W. HAWLEY.



FENELON—The water in the mountain streams was high at the close of the month. E. B. STINSON.

GEYSER—This has been a cold rainy month, with very little sunshine. A. D. CAMPBELL.

HAZEN—The heaviest rainfall of the season occurred on the 28th and 29th, and the ground was thoroughly moistened. No damage was done by the earthquake on the 18th, but the shock was very distinct. GEO. A. GANSER.

McAFEE'S RANCH—More than the usual amount of stormy weather occurred during April. The weather was very favorable for growth. G. A. McAFEE.

PIOCHE—A heavy snowstorm occurred on the 6th.

A. A. CARMAN.

POTTS—Frosts occurred on several dates.

MAUDE POTTS.

WABUSKA—The weather during the first part of the month was rather severe on fruit blossoms; the latter part was fine for growth. There was more than the usual amount of rain.

J. G. YOUNG.

#### NOTES.

The first report from the Squaw Valley station appears in this issue. This station is located at the Golconda Cattle Ranch, in Elko County, about 50 miles northeast of Golconda.

A coöperative rainfall station has been established at Paradise Valley, Humboldt County, with Mr. J. D. Bradshaw in charge.

The coöperative station at Candelaria, Esmeralda County, has been reëstablished, with Mr. Chas. N. Platt in charge.

The maximum temperature for April on Mount Rose was 44°, which is the same as the highest temperature for that station in March. This temperature was recorded between the 17th and 22d; the date is not known as there was no thermograph record for that period. The minimum temperature for the month was 2.5° below zero on the 1st; this was the reading of the dry bulb thermometer at 10 a. m. No reading of the minimum thermometer could be taken, as the alcohol column was broken.

#### ERRATUM.

Report for February, 1906: Page 13, Wells mean temperature recorded 27.1°, should be 27.2°.

#### THE RECORD OF THE GREAT EARTHQUAKE WRITTEN IN WASHINGTON BY THE SEISMOGRAPH OF THE U. S. WEATHER BUREAU.

The vast calamity wrought by the recent great earthquake at San Francisco amounts, it seems, to little less than the complete destruction of a great city. In a moment, almost, nearly its whole population of over 300,000 people are rendered homeless and helpless, and the sympathy and concern of the whole world is aroused in their welfare. These great human interests command the primary attention of all, but many readers will doubtless be interested to follow the simple and short account here given of some things concerning earthquakes and their measurement that modern science has accomplished.

Nowadays, by the aid of seismographs of almost inconceivable delicacy, a great earthquake occurring at one point on the globe is very certain to be recorded at practically every other point at which there is a suitable instrument. In the present case the vast expenditure of energy at San Francisco and its immediate vicinity literally set the entire mass of the

earth into appreciable vibrations that subsided only after the lapse of several hours. Reports showing this to have been the case have already been announced from many places, such as Alaska, England, Italy, Austria, and islands of the Pacific.

Swifter than the telegraph could flash its messages of disaster throughout civilized Christendom, the trembling crust of the earth propagated its vibrations in every direction at great velocities and set the delicate registers of seismographs at work to write automatically their mute story of what was going on.

The so-called preliminary tremors, which, either because they traveled faster or along a shorter path—perhaps for both reasons—reached Washington not less than six minutes earlier than the stronger motion. Later the needle was deflected off the record sheet by still more violent motion, but returned again at 8:35, and thereafter recorded vibrations of continually diminishing force for about four hours.

In the study of earth vibrations several distinct classes of waves are recognized, such as longitudinal, transverse, surface waves, distortional waves, etc. These appear to travel along different paths and at different velocities, and a full statement of the question of the speed of propagation is very complex. In a general way, however, it may be said that the so-called preliminary tremors travel by the shortest path between points—that is, *through* the earth along the chord rather than along the surface of the sphere. In the present case the great circle distance from San Francisco to Washington is about 2,435 miles, whereas the distance through the crust is about 40 miles shorter, and the straight-line path cuts below the surface of the earth about 186 miles at its deepest point. At still greater distances from San Francisco than Washington it is plain that the straight-line path cuts still deeper and deeper below the surface, and it is also proportionately shorter and shorter than distances on the surface. Furthermore, because of its greater density and the enormous superincumbent pressure, the elastic properties of the deep-lying substance of the earth seems to propagate vibrations with higher and higher velocities the deeper the path. These considerations lead to the conclusion that if earthquake vibrations follow the path of the chord the speed of propagation should not be constant for all distances from the origin, but should be greater the greater the distance from the origin. This has generally been found to be true in the case of the preliminary tremors, and will doubtless be shown in this earthquake when accurate reports from numerous stations are examined. From San Francisco to Washington the speed along the chord is found to be 5.4 miles (8.7 kilometers) per second. This is based on Professor Davidson's time at San Francisco, viz, 5:12 a. m. This result is perhaps a trifle faster than we might expect.

The strong waves do not seem to follow the path of the chord, but rather travel along the surface at a slower rate, which is nearly constant for all distances. In the present case the velocity is 3.1 miles per second for the first strong waves, or as low as 2.2 miles per second for the maximum waves. Both of these speeds, however, are a little high, perhaps.

The recording needle of the seismograph traces a ten-fold magnification of the movement of the earth. On this basis the actual maximum displacement of the ground at Washington was nearly one-half inch each side of its position of rest. This may seem an astonishingly large movement, especially in view of the fact that no one felt any motion whatsoever. The explanation, however, is found in the fact that the motion is very slow and without shock, so that buildings and objects are moved to and fro without the slightest strain or injury.—*Extracts from an article by Prof. C. F. Marvin in the National Geographic Magazine for May, 1906.*



## CLIMATOLOGICAL DATA FOR APRIL, 1906.

Stations.	Counties.	Temperature (degrees Fahrenheit)										Precipitation (inches)					Snow					Observations.
		Elevation (feet)	Length of record (years)	Mean.	Departure from the normal	Highest.	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest 24 hours	Total since January 1	Number of rainy days	Number of snow days	Number of ice days	Number of days with snow	Number of days with ice			
Northern Section.																						
Battle Mountain-1	Lander	4,511	36	53.5	+3.7	85	20	20	8	60										Agent So. Pacific Co.		
Beowawe-3	Eureka	4,095	36	51.7	+5.8	80	21	28	3		1.40	+0.76	0.50	8.0	7	10	11	9	SW	Agent So. Pacific Co.		
Carlin-3	Elko	4,897	36	49.2	+3.1	80	21	30	1		1.15	-0.30	0.75	1.0	1	10	17	3	W	Agent So. Pacific Co.		
Clover Valley†-1	Elko	6,000	7	45.2		82	21	21	3	51	1.39		0.66		5	10	11	6		A. H. Wiseman		
Elko-3	Elko	5,063	36	52.7	+8.0	80	20	35	1							11	1	18	W	Agent So. Pacific Co.		
Penelon-3	Elko	6,128	19													16	3	11	E	Agent So. Pacific Co.		
Golconda-3	Humboldt	4,392	28	41.6		70	21	28	4		1.50	+0.90	1.50		1	19	4	7	SW	Agent So. Pacific Co.		
Halleck-3	Elko	5,229	31	47.0	+0.6	78	16	26	2		1.20	+0.59	0.50	5.0	4	9	2	19	W	Agent So. Pacific Co.		
Humboldt-1	Humboldt	4,236	35	51.6	+4.3	80	20	25	6	44	T	-0.67	T	0.0	0	23	3	4	S	Agent So. Pacific Co.		
Lovelock-1	Humboldt	3,977	15	54.3	+2.3	83	22	25	1	50	T	-0.21	T	0.0	0	23	4	3	W	Agent So. Pacific Co.		
Quinn River Ranch*-1c	Humboldt	4,225	18	51.2	+1.9	82	22	38	1		0.90	+0.36	0.70	0.0	2	12	0	18	SW	Agent So. Pacific Co.		
Mill City-3	Eureka	4,821	25	48.8	+0.9	86	20	9	4	57	1.45	+0.19	0.67	1.0	4	16	8	6	N	Agent So. Pacific Co.		
Palisade-1	Humboldt	4,850	5	48.4		82	20	22	1	40	0.20		0.20		1	18	6	6	W	F. M. Payne		
San Jacinto-1	Elko		2	47.0		79	19	11	4	51	0.35		0.15	1.0	1	10	11	9	S	W. C. Betteridge, Jr.		
Squaw Valley**-2	Elko			44.3		82	22	19	4	52	1.75		0.70	T	1				SE	John G. Scott		
Tecoma-1	Elko	4,812	29	49.8	+1.0	85	21	11	4	53	1.30	+0.68	0.50	4.0	3	13	5	12	S	Agent So. Pacific Co.		
Wells-3	Elko	5,623	35	47.3	-2.2	64	22	27	2							11	0	19	SW	Agent So. Pacific Co.		
Winnemucca-1	Humboldt	4,432	28	47.8	+1.3	81	20	23	12	42	0.88	+0.04	0.58	2.0	6	15	6	9	NE	U. S. Weather Bureau		
Central Section.		Means		49.4						50	0.96		0.53	2.3	3	11	6	10	W			
Austin-1	Lander	6,594	18	43.4	-1.0	73	20	18	1	34	2.56	+1.28	0.62	9.0	9	9	12	9	W	Dr. W. H. Heinzmann		
Eureka-1	Eureka		4	43.2		73	20	14	4	38	1.26		0.40	10.0	6	8	7	15	N	Clay Simms		
Potts-1	Nye	6,990	14	41.0	-5.1	72	19	15	4	47	0.50	-0.34	0.25	6.0	5	4	9	17	S	Miss Mande Potts		
Western Section.		Means		42.5						40	1.44		0.42	8.3	7	7	9	14				
Carson City-2	Ormsby	4,660	27	46.5	-1.5	79	20	22	4	46	0.97	+0.10	0.50	0.0	5	15	9	6	SW	C. W. Friend		
Fallon-1	Churchill	3,965	2	50.5		84	21	18	4	44	0.76		0.50	0.0	6	15	10	5	W	R. W. Hawley		
Hazen-2	Churchill	4,050		49.5		83	19	16	3	53	0.86		0.37	0.0	4	11	12	7	W	Geo. A. Ganser		
Lewers' Ranch†-1	Washoe	5,500	19																	Mrs. Ross Lewers		
Martin's Ranch‡-1	Douglas	4,830	8	51.0	+3.0	90	20	19	4	59	1.75	+0.88	0.53	0.0	5	16	4	10	SW	Mrs. J. H. Martin		
Reno-1	Washoe	4,532	36	47.2	+0.5	81	20	20	4	44	0.78	+0.27	0.55	0.5	3	13	11	6	W	U. S. Weather Bureau		
Wabaska-1	Lyon	4,347	4	47.4		80	19	18	4	47	1.05		0.50	0.0	3	14	7	9	SW	J. G. Young		
Wadsworth-1	Washoe	4,077	35	49.8	-2.9	85	20	18	2	49						21	5	4	E	Agent So. Pacific Co.		
Southern Section.		Means		48.8						49	1.03		0.49	0.1	4	15	8	7	W			
Belmont-1	Nye	8,132	15																	W. N. Granger		
Columbia-1	Esmeralda	5,750		46.4		76	21	19	2	38	1.22		0.48	3.0	8	12	6	12	N	Mason Galloway		
Geyser-1 a	Lincoln		2	42.6		75	21	17	3	50	1.86		1.00	2.5	8	5	9	16	N	A. D. Campbell		
McAfee's Ranch*-1	Esmeralda	4,835	3	46.1		79	21	19	12	55	1.75		1.23	0.0	4	13	1	16	N	G. A. McAfee		
Morey  -1	Nye	7,384	3	41.0		70	19	14	2	35	1.64		0.71	0.4	8	8	7	15	W	C. S. Gibson		
Palmetto-1	Esmeralda	6,780	17	41.1	-2.5	75	20	12	4	46	4.33	+3.17	1.30	32.0	7	10	7	13	N	Wm. Oothout, Jr.		
Pioche-1	Lincoln	6,100	2	42.2		85	21	13	3	57	2.89		0.99	14.5	7	8	3	19	S	A. A. Carman		
		Means		43.2						47	2.28		0.95	8.7	7	9	6	15	N			
State Means and Extremes.				47.6	+0.9	90	20	9	4	48	1.30	+0.49	0.60	4.0	5	13	7	10	W			
Miscellaneous.																						
Modena (Utah)-1	Iron	5,479	6	45.2	-0.3	74	21	22	2	40	2.91	+2.02	0.91	4.6	11	9	8	13	W	U. S. Weather Bureau		
Independence (Cal.)-1	Inyo	3,721	9																	U. S. Weather Bureau		
Laws (Cal.)-3	Inyo			53.9		82	17	34	4		0.10		0.10	0.0	1	18	3	9	N	W. M. Richards		

REFERENCES: 1. Weather Bureau maximum and minimum thermometers in use; 2. self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3. means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station, or against the data in the body of the form, indicates the number of days missing from the record; for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

† Postoffice—Wells. ‡ Postoffice—Franktown. § Postoffice—Gardnerville. ¶ Postoffice—Amos. \* Postoffice—Dyer. || Postoffice—Eureka. \*\* Postoffice—Golconda.

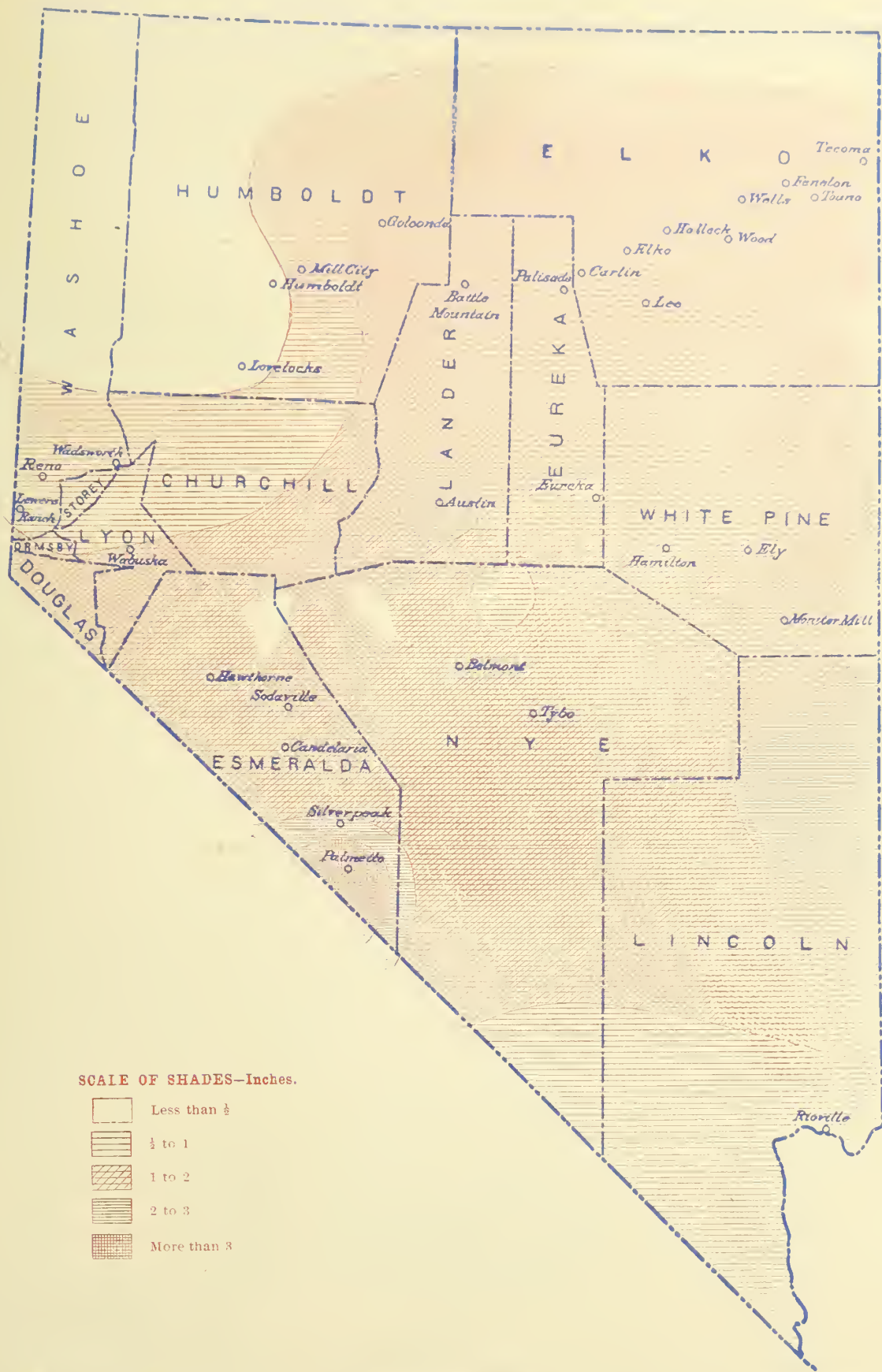


----- AND MINIMUM TEMPERATURES FOR APRIL, 1906.

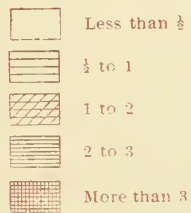
DAILY MAXIMUM AND MINIMUM TEMPERATURES FOR ARIAZA																																
Stations.	Day of Month.																															Monthly Means.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Austin.....	Max. 32	34	32	40	51	54	58	62	58	43	41	49	59	63	67	64	60	61	71	73	73	70	61	38	52	50	56	51	46	52	54.0	
Battle Mountain.....	Min. 18	19	24	18	27	35	37	34	39	34	28	25	35	40	41	40	41	31	37	43	46	49	33	31	31	31	29	38	31	31	30	32.8
Belmont.....	Max. 53	46	50	54	56	60	63	80	64	62	65	66	74	83	79	81	80	81	81	85	85	81	85	84	83	82	81	82	81	81	73.1	
Carson City.....	Min. 26	28	29	32	30	34	34	20	37	36	33	25	32	31	35	38	39	36	36	35	40	38	41	40	41	39	36	30	33	35	33.9	
Clover Valley.....	Max. 35	40	43	50	60	62	64	65	59	47	55	62	65	69	72	63	65	70	76	79	71	65	51	53	57	61	50	52	58	65	59.6	
Columbia.....	Min. 35	36	32	40	43	48	48	48	42	38	35	26	30	43	37	41	40	35	36	44	42	52	60	61	63	61	58	44	49	59	59.0	
Elko.....	Max. 37	41	49	49	54	58	60	66	60	52	52	58	65	66	69	67	64	68	74	75	76	74	60	63	61	58	54	44	49	59	58.6	
Eureka.....	Min. 22	23	21	21	26	32	34	33	32	32	33	34	34	32	34	34	34	34	38	38	44	42	45	42	43	43	41	37	37	37	34.1	
Fallon.....	Max. 38	40	45	48	51	55	58	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60.0	
Geyser.....	Min. 20	18	17	17	22	26	30	30	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28.0	
Hazen.....	Max. 32	36	40	44	48	52	56	60	64	68	72	76	80	84	88	92	96	100	104	108	112	116	120	124	128	132	136	140	144	148	152	156
Humboldt.....	Min. 23	26	29	32	35	38	41	44	47	50	53	56	59	62	65	68	71	74	77	80	83	86	89	92	95	98	101	104	107	110	113	116
Lewers' Ranch.....	Max. 34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96
Logan.....	Min. 29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79	81	83	85	87	89	91
Lovelock.....	Max. 69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99	101	103	105	107	109	111	113	115	117	119	121	123	125	127	129	131
Martin's Ranch.....	Min. 24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86
McAfee's Ranch.....	Max. 44	48	52	56	60	64	68	72	76	80	84	88	92	96	100	104	108	112	116	120	124	128	132	136	140	144	148	152	156	160	164	168
Morey.....	Min. 24	20	32	36	40	44	48	52	56	60	64	68	72	76	80	84	88	92	96	100	104	108	112	116	120	124	128	132	136	140	144	148
Morey.....	Min. 17	14	21	19	25	31	32	30	34	27	26	34	27	26	34	27	26	34	27	26	34	27	26	34	27	26	34	27	26	34	27	26
Palmetto.....	Max. 38	36	32	12	28	30	28	34	36	34	36	34	36	34	36	34	36	34	36	34	36	34	36	34	36	34	36	34	36	34	36	34
Palisade.....	Min. 20	14	45	56	50	58	62	68	63	59	57	65	69	76	75	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73
Pioche.....	Max. 46	40	41	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
Potts.....	Min. 15	17	13	15	18	21	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
Quinn River Ranch.....	Max. 32	31	31	44	53	56	62	61	60	50	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52
Reno.....	Min. 18	20	24	24	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
San Jacinto.....	Max. 50	51	46	36	27	19	20	24	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
Squaw Valley.....	Min. 25	25	40	55	60	68	75	77	70	60	58	27	30	35	31	27	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
Tecoma.....	Max. 60	32	30	15	11	12	22	32	32	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
Wabaska.....	Min. 41	41	22	18	23	18	23	18	23	18	23	18	23	18	23	18	23	18	23	18	23	18	23	18	23	18	23	18	23	18	23	18
Wadsworth.....	Max. 43	40	48	54	68	25	26	24	21	18	23	32	33	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
Winnemucca.....	Min. 34	37	42	50	61	65	68	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
Miscellaneous.	Max. 41	40	41	48	50	48	60	62	62	60	46	56	58	68	64	68	69	66	62	68	71	74	72	61	59	64	56	61	51	46	49	57.8
Modena (Utah).....	Min. 26	22	27	28	30	33	33	33	33	35	38	34	31	28	32	41	36	39	40	35	32	34	40	40	36	36	32	27	32	30	34	32.7
Independence (Cal.).....	Max. 41	40	41	48	50	48	60	62	62	60	46	56	58	68	64	68	69	66	62	68	71	74	72	61	59	64	56	61	51	46	49	57.8



TOTAL PRECIPITATION FOR APRIL, 1906



SCALE OF SHADES—Inches.





## DAILY PRECIPITATION FOR APRIL, 1906.

Stations	Day of Month.																															Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Northern Section.																																	
Battle Mountain	.30	.50								.25											.05	.15	.05										1.40
Beowawe	.10	.20	.10							.75											T												1.15
Carlin		.08	.02							.66																							1.39
Clover Valley																																	
Elko																																	
Fenelon																																	
Golconda	.50	T								.50											1.50	T											1.50
Halleck																																	1.20
Humboldt						T															T												T
Lovelock																						.70											0.90
Mill City										.67																							1.45
Palisade	.05	.10																				.20											0.20
Quinn River Ranch											.05																						0.35
San Jacinto										T	.20											.55	.70	.30								1.75	
Squaw Valley										.50																							1.30
Tecoma	.40																																
Wells																																	
Winnemucca	.08	.06	T							.06												.58	T	.02									0.88
Central Section.																																	
Austin	.05	.10	.20							.31	.52											.28	.15										2.56
Eureka	T	T	T							.29	.20											.10											1.26
Potts	.05	T	T							.05	.10											T											0.50
Western Section.																																	
Carson City																																	
Fallon	.02		T							.50	.06											T											0.97
Hazen										.12	T											.02	.30	.07									0.76
Lewers' Ranch										.18												.10	.37	.21									0.86
Martin's Ranch																																	
Reno	T		T							.53	.11											T											1.75
Wabuska										.55												T											0.78
Wadsworth										.30												T											1.05
Southern Section.																																	
Belmont																																	
Columbia	T		.02			.22	.30	.13		.01	.02											T											1.22
Geyser	.30					1.00	.12				.04											.10											1.86
Logan																																	
McAfee's Ranch						.25																											1.75
Morey			.07	.03		.28				.24	.71											.11											1.64
Palmetto	T	T	1.30		.40					.15	T											T											4.33
Pioche	.06	.07			.18	.91	.99				T																						2.89
Miscellaneous.																																	
Modena (Utah)	.38		T	.01	.79	.88	.29			.02	.10											.12											2.91
Independence (Cal.)																																	
Laws (Cal.)										.25	.15																						0.10
Donner (Cal.)			T	T																		T	T										0.79

T indicates trace. \* Amount included in that of the following day.

CARSON CITY, NEVADA:  
STATE PRINTING OFFICE, -  - ANDREW MAUTE, SUPT.

1906



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U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR MAY, 1906.

NEVADA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

IN COOPERATION WITH THE

NEVADA STATE WEATHER SERVICE

(CHARLES W. FRIEND, Director.)

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

H. F. ALPS

ACTING SECTION DIRECTOR



CARSON CITY, NEVADA:

June 25, 1906.



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR MAY, 1906.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**  
 OF THE  
**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,  
 HENRY F. ALPS, Acting Section Director.

VOL. XX. RENO, NEVADA, MAY, 1906. No. 5.

**GENERAL SUMMARY.**

**Pressure.**

The mean pressure for the State, reduced to sea-level, was 29.88 inches. The highest during the month was 30.18 inches, at Winnemucca, on the 17th, and the lowest was 29.46 inches, at Reno, on the 25th.

**Temperature.**

The mean temperature for the State was 53.1°, which is 1.3° below the normal for the month, and 2.7° higher than the mean for the corresponding month of 1905. The mean temperature for the northern section was 53.6°; for the eastern section, 44.5°; for the central section, 49.1°; for the western section, 54.8°; and for the southern section, 53.8°. The highest monthly mean temperature was 71.0°, at Logan, Lincoln County. The lowest monthly mean was 44.5°, at Hamilton, White Pine County. The highest temperature was 98°, at Logan, Lincoln County, on the 8th. The lowest temperature was 14°, at Squaw Valley, Elko County, on the 17th. The absolute range of temperature for the State was 84°; the greatest daily range was 57°, at Pioche, Lincoln County, on the 6th, and at Potts, Nye County, on the 16th.

The highest temperatures for the month occurred on the 9th and 10th in the northern section, and on the 8th and 9th in other sections, the date at the majority of stations being the 8th. There were two periods of cold weather, the first extending from the 15th to the 18th, inclusive, and the latter from the 28th to the 31st, inclusive. The lowest temperatures occurred on the 16th and 17th, except in the southern section, where they occurred on the 29th. The temperature fell below freezing at all reporting stations, except Logan, where the minimum for the month was 41°.

**Precipitation.**

The average precipitation for the State was 1.38 inches, which is 0.32 inch above the normal for the month, and 0.15 inch in excess of the average for the corresponding month of 1905. The average precipitation for the northern section was 1.49 inches; for the eastern section, 2.62 inches; for the central section, 1.85 inches; for the western section, 0.79 inch; and for the southern section, 1.31 inches. The greatest monthly amount was 3.44 inches, at Palmetto, Esmeralda County. The least monthly amount was a trace, at Logan, Lincoln County. The greatest amount recorded in twenty-four hours was 1.38 inches, at Clover Valley, Elko County, on the 28th. The average number of rainy days was 5.

Scattered showers fell on the 1st, 2d, 4th, 5th, 10th, 13th, 14th, 15th, and 16th, and precipitation was general on the 11th and 12th, and from the 22d to the 29th, inclusive, the amount being greatest in the northern section during the latter period.

**Wind.**

The prevailing direction of the wind was from the west. The total movement of the wind at Reno was 5,179 miles; the total movement at Winnemucca was 4,805 miles. The maximum velocity at Reno was 34 miles per hour, from the southwest, on the 14th; the maximum velocity at Winnemucca was 40 miles per hour, from the southwest, on the 14th. The average velocity was 6.8 miles per hour.

**Sunshine and Cloudiness.**

The average number of clear days was 13, partly cloudy days 8, and cloudy days 10.

**COMPARATIVE DATA FOR MAY.**

Year.	Temperature.			Average precipitation.	Number of days.				Prevailing wind
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1889	57.8	106	20	1.44					S
1890	59.9	105	23	1.05					S
1891	54.7	95	21	2.43	10				W
1892	53.8	100	13	1.17	6				SW
1893	52.6	98	18	0.41	3				SW
1894	56.3	95	25	0.80	4				SW
1895	56.1	105	18	0.55	4	14	8	9	SW
1896	48.2	108	5	2.03					
1897	60.0	99	12	0.59					
1898	51.8	93	20	1.84	7	11	9	11	W
1899	49.7	96	10	0.68	4	10	10	11	SW
1900	56.6	101	20	0.77	3	16	5	10	W
1901	56.2	94	19	0.86	4	13	8	10	SW
1902	53.7	102	16	0.37	3	15	8	8	SW
1903	54.1	106	15	0.70	3	16	7	8	SW
1904	54.0	98	10	0.84	3	18	6	7	S
1905	50.4	94	17	1.23	5	12	8	11	SW
1906	53.1	98	14	1.38	5	13	8	10	W

**MISCELLANEOUS PHENOMENA.**

*Fog*—Elko, 24th; Fenelon, 27th; Morey, 12th; Palmetto, 12th.

*Hail*—Austin, 28th, 29th, 30th; Columbia, 28th; Elko, 28th; Fallon, 11th; Fenelon, 16th; Geyser, 28th; McAfee's Ranch, 12th; Morey, 11th, 30th; Palmetto, 11th; Squaw Valley, 26th; Wabuska, 22d.

*Sleet*—Fenelon, 16th, 28th; Squaw Valley, 16th.

*Halo, Solar*—Carson City, 20th, 24th; Reno, 17th, 20th, 24th.

*Earthquakes*—Candelaria, 27th, 30th; Carson City, 20th.

*Thunderstorms*—Austin, 11th; Candelaria, 10th; Carson City, 1st, 4th, 11th, 22d; Columbia, 4th; Eureka, 11th, 23d; Fenelon, 15th; Geyser, 12th; Hamilton, 11th, 22d; McAfee's Ranch, 2d, 12th; Morey, 11th; Palmetto, 2d, 4th, 11th; Potts, 11th, 12th; Quinn River Ranch, 11th; Reno, 1st, 10th; San Jacinto, 23d, 26th, 27th; Squaw Valley, 24th; Wabuska, 4th, 9th, 22d; Winnemucca, 11th.

*High Winds*—Carlin, 9th; Clover Valley, 13th, 14th, 15th, 16th, 19th, 20th, 21st, 22d, 28th; Columbia, 11th, 16th, 25th, 26th, 27th; Fallon, 14th, 15th; Geyser, 22d; Hamilton, 11th, 16th, 25th; Hazen, 1st, 11th, 12th, 14th, 15th, 19th, 21st, 24th, 25th, 26th, 27th, 28th; Logan, 10th, 11th, 14th, 15th, 19th, 21st, 22d, 23d, 24th, 25th, 26th, 27th, 28th; Palisade, 11th; Palmetto, 22d, 25th, 26th, 27th; Potts, 10th, 13th, 15th, 16th, 17th, 18th, 19th, 26th, 27th, 28th, 29th; Reno, 1st, 9th, 14th, 22d, 25th, 26th, 28th; Wabuska, 14th, 25th, 26th; Winnemucca, 14th.

*Killing Frost*—Austin, 16th, 17th, 23d, 28th, 29th, 30th, 31st; Battle Mountain, 16th, 17th, 31st; Carlin, 16th; Carson City, 16th, 17th, 28th, 30th, 31st; Clover Valley, 6th, 15th, 16th, 17th, 18th; Columbia, 16th, 17th, 29th, 30th; Elko, 16th, 17th; Eureka, 6th, 16th, 17th, 21st, 24th, 28th, 29th, 30th, 31st; Fallon, 15th, 16th, 17th, 30th; Fenelon, 14th,



15th, 16th, 17th, 29th, 30th, 31st; Geyser, 1st, 2d, 3d, 4th, 5th, 6th, 7th, 8th, 10th, 12th, 13th, 14th, 15th, 16th, 17th, 18th, 19th, 21st, 23d, 25th, 26th, 28th, 29th, 30th, 31st; Halleck, 16th, 17th, 30th; Hamilton, 2d, 5th, 6th, 7th, 12th, 15th, 16th, 17th, 22d, 23d, 24th, 28th, 29th, 30th, 31st; Hazen, 16th, 17th, 28th; Humboldt, 16th, 17th; Lewers' Ranch, 17th; Lovelock, 1st, 13th, 14th, 15th, 16th, 23d, 24th, 25th, 26th, 27th, 28th, 29th, 30th, 31st; Martin's Ranch, 16th, 17th, 21st, 28th, 29th, 30th, 31st; McAfee's Ranch, 1st, 17th, 24th, 29th, 31st; Morey, 12th, 15th, 16th, 17th, 28th, 29th, 30th, 31st; Palisade, 1st, 3d, 4th, 5th, 6th, 7th, 9th, 10th, 11th, 12th, 14th, 17th; Palmetto, 1st, 3d, 6th, 12th, 15th, 16th, 17th, 21st, 23d, 24th, 28th, 29th, 30th, 31st; Pioche, 1st, 2d, 3d, 4th, 6th, 7th, 8th, 12th, 13th, 14th, 16th, 17th, 18th, 19th, 22d, 23d, 24th, 28th, 29th, 30th, 31st; Potts, 1st, 3d, 6th, 7th, 8th, 14th, 15th, 16th, 17th, 19th, 20th, 21st, 23d, 27th, 28th, 29th, 30th, 31st; Quinn River Ranch, 15th, 17th; Reno, 16th, 17th; San Jacinto, 1st, 5th, 6th, 8th, 16th, 17th, 18th; Squaw Valley, 1st, 2d, 3d, 4th, 5th, 6th, 7th, 8th, 9th, 11th, 14th, 15th, 16th, 17th, 18th, 19th, 21st, 23d, 24th, 30th, 31st; Tecoma, 16th, 17th, 31st; Wabuska, 16th, 17th, 29th, 31st; Wadsworth, 1st, 3d, 14th, 15th, 16th, 17th; Wells, 15th, 16th, 17th; Winnemucca, 15th, 16th, 17th.

## OBSERVERS' REMARKS.

AUSTIN—Very disagreeable weather prevailed during May, with frequent damaging frosts. DR. W. H. HEINZMANN.

CANDELARIA—A light earthquake occurred at 4:50 a. m. of the 27th. The shock was strong enough to make the windows rattle, but no damage was done. A light earthquake tremor occurred at 10:20 a. m. of the 30th. Snow fell with rain on the 23d, 28th, and 29th. CHAS. N. PLATT.

CARSON CITY—An earthquake occurred on the 20th, but no damage was done. The motion was from west to east. CHAS. W. FRIEND.

CLOVER VALLEY—Cold and windy weather prevailed during the middle and latter part of the month. A. H. WISEMAN.

COLUMBIA—On the 28th .09 inch of the precipitation was from hail which fell about 10:30 a. m. The total depth was 0.5 inch. MASON GALLOWAY.

EUREKA—Thin ice formed on the mornings of the 16th, 17th, and 30th. CLAY SIMMS.

FALLON—The weather was cold and unfavorable for growth. Some damage was done by frost. R. W. HAWLEY.

GEYSER—May was an unseasonably cold and disagreeable month. A. D. CAMPBELL.

HAZEN—The weather was clear during the first part of the month, but generally cloudy and stormy the latter part. High westerly winds were frequent during the month. GEO. A. GANSER.

LOGAN—Strong winds prevailed during the middle and latter part of the month. LESLIE N. GOODING.

McAFEE'S RANCH—Much damage was done by the killing frost on the morning of the 29th. G. A. McAFEE.

PALMETTO—Frequent snow squalls occurred on the 22d. WM. OOTHOUT, JR.

PARADISE VALLEY—The month of May was too cold for rapid growth. J. D. BRADSHAW.

PIOCHE—Thin ice formed on the 29th. A. A. CARMAN.

POTTS—High winds were frequent during the month. MAUDE POTTS.

## NOTES.

The coöperative rainfall station at Crane's Ranch has been discontinued.

A coöperative observation station has been established at Hamilton, White Pine County, with Mrs. L. C. Muir in charge. This issue contains an excellent record for that station for the month of May.

## DELAYED REPORT.

Lewers' Ranch (Washoe County) report for May, 1906: Mean temperature, 51.6°; highest, 84°, on the 8th; lowest, 26°, on the 16th; greatest daily range, 43°. Total precipitation, 2.75 inches; greatest amount in twenty-four consecutive hours, 1.70 inches, on the 29th; number of days with .01 of an inch or more of precipitation, 4. Number of clear days, 12; partly cloudy, 8; cloudy, 11.

## TEMPERATURE ON MOUNT ROSE.

The maximum temperature for May on Mount Rose was 50°, on the 8th. The minimum temperature was 7°, which occurred between the 14th and 19th. As the thermograph clock stopped, the date of the minimum temperature cannot be given, but the highest and lowest temperatures for the period were written.

## LANTERN SLIDES FOR ILLUSTRATION IN TEACHING METEOROLOGY.

"All teachers of physiography and meteorology are well aware of the difficulty of obtaining adequate material for illustration in the teaching of meteorology. Special maps for the study of type storms cannot be had in many cases; or, if obtained, require a great deal of care in storing and use, and deteriorate rapidly. Special data are often reduced to graphic form, making them of the highest teaching value, yet to be found only in costly volumes, or rare publications. Such graphs are often too difficult of construction to be easily duplicated for class work."—*Extract from a circular published by the Geographic Society of Chicago.*

A number of educational institutions are now giving a regular course of instruction in climatology and meteorology, and the public is becoming more and more awakened to the application of this science in the affairs of everyday life.

In the teaching of meteorology the demand for lecture material is rapidly increasing, and in order to assist students and teachers in the work the Geographic Society of Chicago has prepared lantern slides to cover every phase of meteorology, and these slides are offered at cost to teachers and schools.

Persons desiring information concerning these lantern slides should address the Geographic Society of Chicago, postoffice box 223, Chicago, Illinois. Those who desire the coöperation of Weather Bureau officials in the selection and use of slides should address the nearest local office of the Weather Bureau.



## CLIMATOLOGICAL DATA FOR MAY, 1906.

Stations.	Counties.	Elevation (feet)	Length of record (years)	Temperature (degrees Fahrenheit)					Precipitation (inches)					SKY					Observers		
				Mean	Departure from the normal	Highest.	Date.	Lowest	Date.	Greatest daily range	Total.	Departure from the normal	Greatest in 24 hours	Total snowfall unmelting	Number rainy days	Number clear days	Number partly cloudy days	Number overcast days		Prevailing direction of wind	
Northern Section.																					
Battle Mountain-1	Lander	4,511	36	57.4		92	10	26	16	51						13	10	8	NW	Agent So. Pacific Co.	
Beowawe-3	Eureka	1,685	36			83	10									13	6	12	SE	Agent So. Pacific Co.	
Carlin-3	Elko	4,897	36	51.2	+0.3	85	10	30	16		1.25		0.50		3	13	13	5	W	Agent So. Pacific Co.	
Clover Valley†-1 m	Elko	6,000	7	51.6		82	9	19	17	48	2.96		1.38		8	8	15	8		A. H. Wiseman	
Elko-3	Elko	5,063	36			80	18				1.42	+0.79	0.50		7				W	Agent So. Pacific Co.	
Fenelon-3	Elko	6,128	19													11	13	7	E	Agent So. Pacific Co.	
Golconda-3	Humboldt	1,392	28													16	3	12	SW	Agent So. Pacific Co.	
Halleck-3	Elko	5,229	34	53.6	-2.4	84	9	28	16		1.60	+0.62	1.00	T	3	10	12	9	W	Agent So. Pacific Co.	
Humboldt-1	Humboldt	4,236	35	54.6	-3.6	85	10	28	17	46	0.75	+0.05	0.40	0.0	4	17	2	12	SW	Agent So. Pacific Co.	
Lovelock-1 b	Humboldt	3,977	15	55.6	-6.6	85	4	30	1	45	0.15	-0.32	0.15	0.0	1	5	9	17	W	Agent So. Pacific Co.	
Mill City-3	Humboldt	4,225	18			84	8				1.10	+0.12	0.60		2	6	5	20	N	Agent So. Pacific Co.	
Palisade-1	Eureka	4,821	25	53.8	-3.6	87	6	24	1	56	1.83	+1.16	0.88		5	14	8	9	N	Agent So. Pacific Co.	
Quinn River Ranch*-1	Humboldt	4,850	5			88	9				1.96		0.71		10	17	7	7	W	F. M. Payne	
San Jacinto-1	Elko		2	52.2		82	12	20	16	46	1.45		0.50	0.0	4	11	11	9	S	W. C. Betteridge, Jr.	
Squaw Valley**-2	Elko	5,100		50.0		88	10	14	17	56	1.46		0.46	T	8	12	9	10	W	John G. Scott	
Tecoma-1	Elko	4,812	29			83	9				1.97	+1.36	0.67	0.0	4	8	11	12	S	Agent So. Pacific Co.	
Wells-3	Elko	5,623	35								1.56	+0.67	0.67		6	9	6	16	W	Agent So. Pacific Co.	
Winnemucca-1	Humboldt	4,432	28	52.6	-1.5	84	9	26	17	44	1.45	+0.48	0.72	T	7	13	12	6	SW	U. S. Weather Bureau	
Means				53.6							1.49				5	11	9	11	W		
Eastern Section.																					
Hamilton-1	White Pine	7,977		44.5		72	8	20	16	37	2.62		0.70	6.0	8	5	19	7	N	Mrs. L. C. Muir	
Central Section.																					
Austin-1	Lander	6,594	18	49.8	-1.5	78	9	25	16	35	2.50	+0.82	0.65	7.0	9	8	9	14	W	Dr. W. H. Heinzmann	
Eureka-1	Eureka	6,500	4	49.8		76	8	23	16	43	2.59		0.72	T	10	10	9	12	S	Clay Simms	
Potts-1	Nye	6,990	14	47.8	-8.3	80	8	17	16	57	0.45	-1.27	0.25	T	2	6	5	20	S	Miss Maude Potts	
Means				49.1							1.85				2.3	7	8	15	S		
Western Section.																					
Carson City-2	Ormsby	4,660	27	51.2	-3.0	81	8	26	17	46	1.08	+0.47	0.69	0.2	9	16	8	7	SW	C. W. Friend	
Fallon-1	Churchill	3,965	2	56.6		84	8	31	17	40	0.72		0.20	0.0	9	19	6	6	W	R. W. Hawley	
Hazen-2	Churchill	4,050		57.0		85	9	28	28	41	0.70		0.37	0.0	5	7	15	9	W	Geo. A. Ganser	
Lewers' Ranch‡-1	Washoe	5,500	19																	Mrs. Ross Lewers	
Martin's Ranch‡-1	Douglas	4,830	8	56.0		92	8	26	16	53	0.30		0.30	0.0	1	19	3	9	SW	Mrs. J. H. Martin	
Reno-1	Washoe	4,532	36	52.3	-1.8	81	8	28	17	45	1.02	+0.12	0.75	T	8	17	8	6	W	U. S. Weather Bureau	
Wabuska-1	Lyon	4,347	4	53.8		81	9	27	17	43	0.90		0.70	0.0	2	16	11	4	NW	J. G. Young	
Wadsworth-1	Washoe	4,077	35	56.4	-6.7	89	8	29	16	45						21	5	5	E	Agent So. Pacific Co.	
Means				54.8							0.79				6	16	8	7	W		
Southern Section.																					
Belmont-1	Nye	8,132	15																	W. N. Granger	
Columbia-1	Esmeralda	5,750		54.2		81	8	29	29	41	0.76		0.26	0.0	6	16	9	6	N	Mason Galloway	
Geyser-1 b	Lincoln		2	48.4		78	17	25	30	52	1.82		1.10	T	4	11	8	12	S	A. D. Campbell	
Logan-1	Lincoln	1,700		71.0		98	8	41	29	43	T		T	0.0	0	23	0	8	S	Leslie N. Goodding	
McAfee's Ranch*-1	Esmeralda	4,835	3	54.5		82	9	22	29	44	0.22		0.17	0.0	2	14	4	13	N	G. A. McAfee	
More  -1	Nye	7,384	3	49.0		76	9	20	29	37	2.01		0.84	0.6	9	13	9	9	SE	C. S. Gibson	
Palmetto-1	Esmeralda	6,780	17	47.5	-3.9	76	8	19	29	44	3.44	+1.90	0.95		7	16	7	8	E	Wm. Oothout, Jr.	
Pioche-1	Lincoln	6,100	2	51.8		91	9	17	29	57	0.89		0.52	T	5	8	8	15	S	A. A. Carman	
Means				53.8							1.31				0.1	5	15	6	10	S	
State Means and Extremes.				53.1	-1.3	98	8	14	17	57	1.38	+0.32	1.38	0.6	5	13	8	10	W		

REFERENCES: 1. Weather Bureau maximum and minimum thermometers in use; 2. self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3. means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station, or against the data in the body of the form, indicates the number of days missing from the record: for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

† Postoffice—Wells. ‡ Postoffice—Franktown. § Postoffice—Gardnerville. ¶ Postoffice—Amos. \* Postoffice—Dyer. || Postoffice—Eureka. \*\* Postoffice—Golconda.

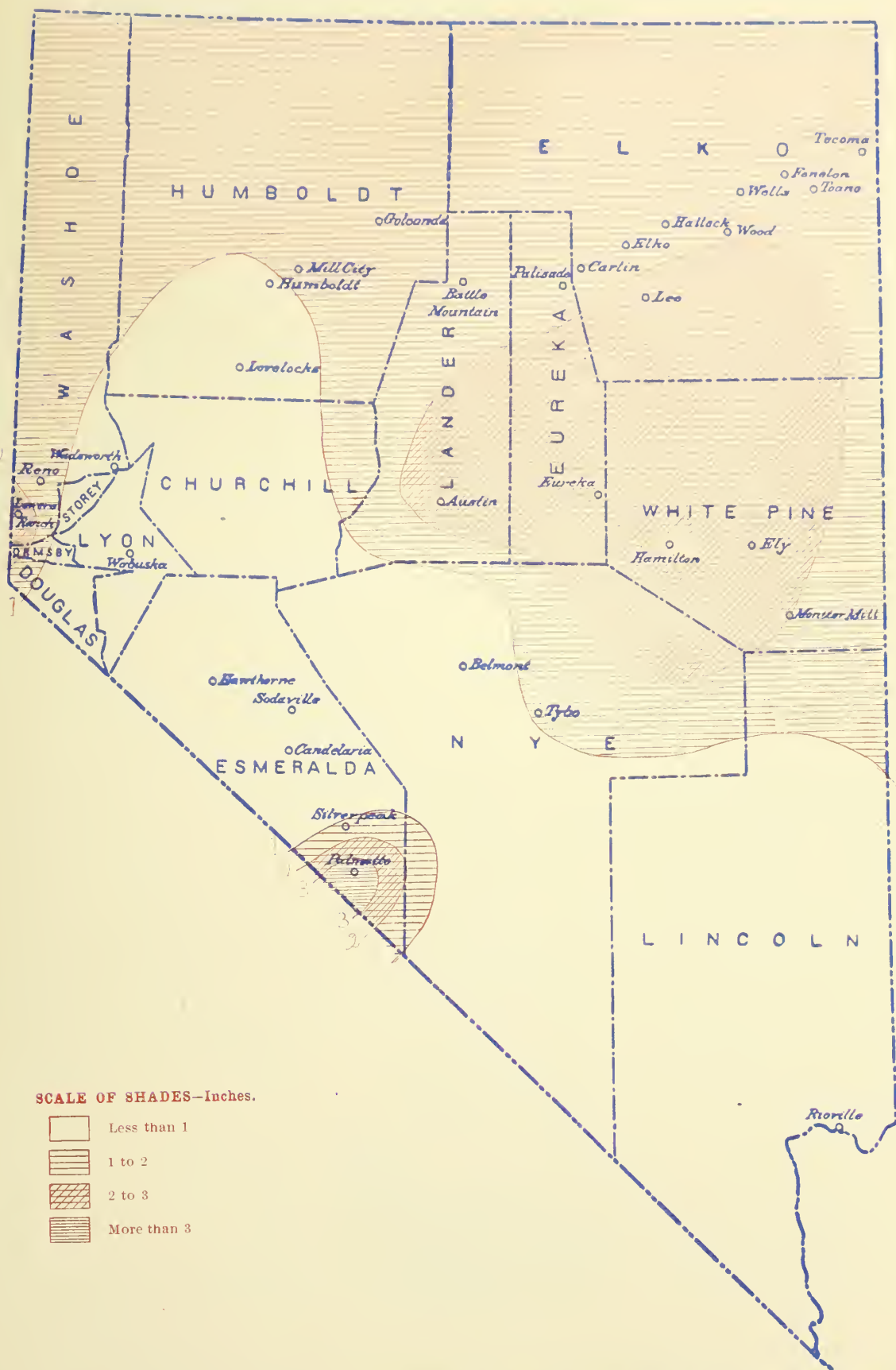


DAILY MAXIMUM AND MINIMUM TEMPERATURES FOR MAY, 1906.

Stations.	Day of Month.																															Monthly Means.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Austin	Max. 63	64	68	72	65	67	71	76	78	71	65	48	59	64	53	47	65	75	74	64	61	55	49	62	58	58	54	45	44	52	62	61.6	
Battle Mountain	Min. 35	38	40	43	41	37	42	46	49	52	41	39	42	39	33	25	30	42	42	38	34	37	32	34	41	43	39	30	31	29	32	37.9	
Belmont	Max. 85	83	84	86	90	82	86	90	90	92	86	80	77	73	67	60	70	80	84	74	72	70	68	75	74	74	73	68	65	60	60	76.9	
Belmont	Min. 35	40	38	40	42	33	34	36	40	45	43	45	45	44	35	26	28	34	37	40	41	37	40	35	46	46	44	35	33	33	26	37.9	
Candelaria	Max.																																
Min.																																	
Carson City	Max. 70	67	74	78	74	76	78	81	80	76	53	46	46	41	33	29	32	42	48	48	44	45	43	47	44	44	40	40	40	39	45.0		
Min.	33	40	37	43	41	37	39	38	44	43	45	45	40	43	33	29	26	37	42	36	35	37	33	33	43	41	39	33	35	32	30	37.5	
Clover Valley	Max. 65	71	72	74	65	69	74	75	82	73	67	60	64	71	56	48	67	77															
Min.	37	33	36	42	33	38	34	38	53	39	36	33	32	32	21	19	29																
Columbia	Max. 66	66	72	76	69	74	76	81	79	72	64	63	68	72	70	62	72	77	77	74	72	63	57	68	63	68	57	50	61	61	69	68.4	
Min.	35	43	40	45	48	41	40	44	47	45	48	43	39	45	36	30	31	42	50	42	40	42	35	35	44	43	41	33	29	32	36	40.0	
Elko	Max.																																
Min.																																	
Eureka	Max. 59	64	69	73	70	68	72	76	76	73	67	49	56	66	61	49	66	76	75	72	63	63	55	64	61	58	52	46	49	54	62	63.4	
Min.	35	36	36	41	34	32	37	40	50	48	43	31	38	39	33	23	23	23	46	48	46	35	32	33	35	41	41	38	27	32	30	36.2	
Fallon	Max. 73	72	78	81	73	79	80	84	84	81	71	61	70	71	60	56	70	79	78	78	68	63	66	71	64	67	65	53	53	59	63	71	70.4
Min.	41	43	44	53	50	41	45	44	50	52	46	40	42	44	35	32	31	39	43	39	38	43	43	41	47	46	44	38	42	38	38	42.7	
Geyser	Max. 60	68	72	75	68	70	74	75	73	72	65	60	62	68																			
Min.	27	28	29	30	28	26	27	30	35	30	33	32	31	32																			
Hamilton	Max. 50	55	61	64	59	62	67	63	66	65	53	46	51	59	62	49	57	63	67	64	64	57	47	57	58	52	49	42	40	48	58	56.6	
Min.	40	30	35	45	32	27	30	35	43	39	33	31	36	33	33																		
Hazen	Max. 73	71	80	82	81	80	82	84	85	80	69	68	70	70	57	57	71	80	77	73	67	63	67	72	68	66	63	53	60	64	71	71.1	
Min.	43	49	51	54	52	50	49	49	51	55	50	40	66	45	35	32	30	40	36	42	43	38	39	36	37	34	37	28	35	40	40	42.8	
Humboldt	Max. 76	78	80	75	74	77	80	82	80	85	84	70	68	70	85	70	60	65	78	70	67	72	68	65	62	60	58	57	60	65	67	71.2	
Min.	38	40	39	38	39	40	44	45	43	39	40	38	36	38	40	30	28	37	40	40	42	40	37	35	36	35	36	38	40	36	35	38.1	
Lewers' Ranch	Max.																																
Min.																																	
Logan	Max. 82	86	91	94	92	87	94	98	96	87	78	85	91	90	92	90	96	94	92	92	87	91	81	86	86	88	86	80	80	86	87	88.7	
Min.	43	52	50	52	52	48	55	56	53	55	55	52	52	58	53	58	53	54	50	54	54	53	47	54	52	52	42	41	44	48	53.2		
Lovelock	Max. 75	80	85	85	85	85	85	80	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85.0
Min.	30	35	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40.0	
Martin's Ranch	Max. 84	82	83	83	86	82	83	82	89	85	71	69	68	65	60	56	70	79	75	72	76	67	76	76	76	76	76	76	76	76	76	76	76.1
Min.	40	39	38	37	62	48	39	39	42	42	43	46	38	38	36	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26.1	
McAfee's Ranch	Max. 71	67	75	81	69	61	69	78	80	82	76	66	66	71	75	71	65	71	79	78	76	76	76	76	76	76	76	76	76	76	76	76	76.1
Min.	29	46	35	39	48	34	35	36	41	38	35	35	48	39	37	35	35	48	36	40	40	40	40	40	40	40	40	40	40	40	40	40.0	
Morey	Max. 60	63	68	70	71	72	73	74	76	70	57	51	58	74	62	62	60	71	71	73	72	68	57	60	57	59	47	39	52	53	57	63.2	
Min.	34	33	38	42	44	40	40	40	43	40	38	32	35	34	31	26	25	36	40	38	35	34	33	34	33	37	35	30	20	28	30	34.7	
Palmetto	Max. 64	60	70	70	72	74	75	76	72	65	55	48	65	62	66	65	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70.0
Min.	28	40	32	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38.0	
Palisade	Max. 74	82	86	81	82	87	84	84	82	84	78	50	66	54	78	72	70	82	78	72	69	74	73	72	70	72	71	54	54	60	64	73.0	
Min.	24	34	32	29	29	31	32	36	29	30	32	31	40	32	33	34	25	38	38	40	36	38	39	39	46	40	38	40	34	40	33	34.6	
Pioche	Max. 63	68	78	85	78	81	83	87	91	85	78	52	71	72	72	70	77	82	82	79	79	78	69	76	69	64	61	60	66	73	76	74.6	
Min.	20	25	26	31	34	34	29	31	37	34	33	33	32	33	33	27	22	30	32	37	34	29	27	27	34	34	33	22	17	22	27	28.9	
Potts	Max. 58	64	69	71	67	66	73	80	72	70	72	56	67	50	73	74	79	77	67	60	56	66	62	64	63	52	55	60	61	56	67	65.4	
Min.	28	35	31	35	35	36	24	29	30	35</																							



# TOTAL PRECIPITATION FOR MAY, 1906.



## SCALE OF SHADES-Inches.

- Less than 1
- 1 to 2
- 2 to 3
- More than 3



## DAILY PRECIPITATION FOR MAY, 1906.

Stations.	Day of Month.																															Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Section.																																
Battle Mountain																																
Beowawe																																
Carlin																																
Clover Valley	.08																															
Elko																																
Golconda																																
Halleck																																
Humboldt																																
Lovelock																																
Mill City																																
Palisade																																
Paradise Valley																																
Quinn River Ranch																																
San Jacinto																																
Squaw Valley	.14																															
Tecoma	.50																															
Wells																																
Winnemucca																																
Eastern Section.																																
Hamilton	.50																															
Central Section.																																
Austin																																
Eureka	.01	.14																														
Potts																																
Western Section.																																
Carson City	.03	.12																														
Fallon																																
Hazen																																
Lewers' Ranch																																
Martin's Ranch																																
Reno	.15	.01																														
Wabaska																																
Wadsworth																																
Southern Section.																																
Belmont																																
Candelaria																																
Columbia																																
Geyser																																
Logan																																
McAfee's Ranch																																
Morey	.07	.09																														
Palmetto	T	.30																														
Pioche	.04	.01																														
												</																				

T Indicates trace. \* Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, -  -

ANDREW MAUTE, SUPT.

1906



U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR JUNE, 1906.

NEVADA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

IN COOPERATION WITH THE

NEVADA STATE WEATHER SERVICE

(CHARLES W. FRIEND, Director.)

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

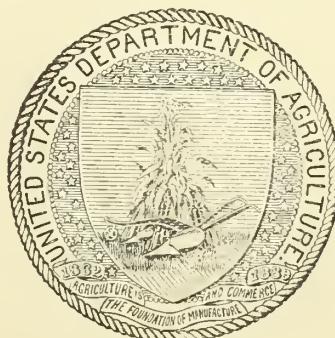
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

H. F. ALPS

ACTING SECTION DIRECTOR

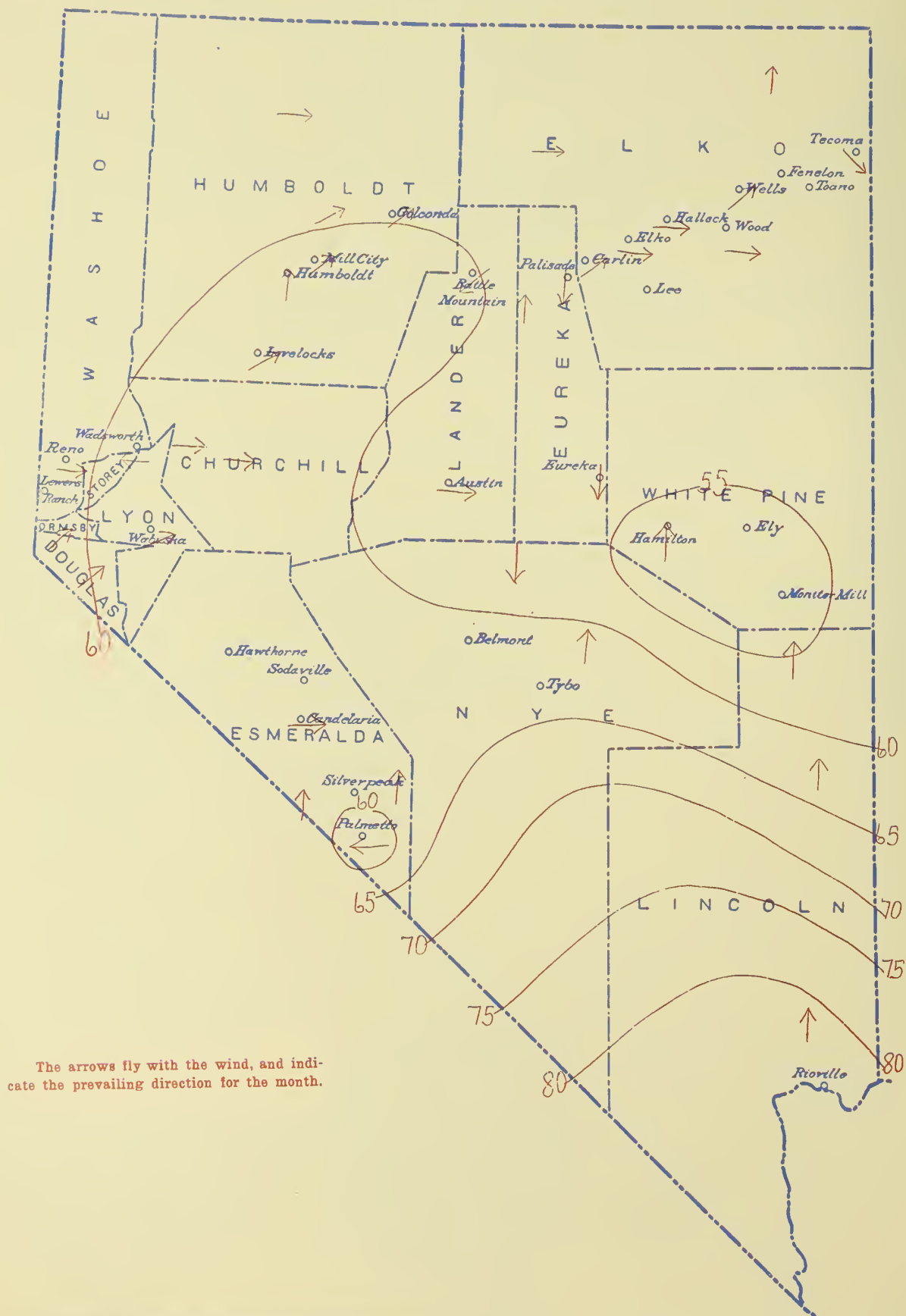


CARSON CITY, NEVADA:

July 24, 1906.



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR JUNE, 1906.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**

OF THE  
**WEATHER BUREAU.**  
 CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,  
 HENRY F. ALPS, Acting Section Director.

VOL. XX. RENO, NEVADA, JUNE, 1906. No. 6.

**GENERAL SUMMARY.**

**Pressure.**

The mean pressure for the State, reduced to sea-level, was 29.90 inches. The highest during the month was 30.14 inches, at Reno, on the 17th, and at Winnemucca, on the 19th, and the lowest was 29.59 inches, at Reno and Winnemucca, on the 26th.

**Temperature.**

The mean temperature for the State was 60.2°, which is 3.4° below the normal for the month, and 1.7° lower than the mean for the corresponding month of 1905. The mean temperature for the northern section was 59.0°; for the eastern section, 53.4°; for the central section, 57.4°; for the western section, 61.1°; and for the southern section, 63.1°. The highest monthly mean temperature was 80.8°, at Logan, Lincoln County. The lowest monthly mean was 53.4°, at Hamilton, White Pine County. The highest temperature was 115°, at Logan, on the 15th. The lowest temperature was 20°, at Pioche, Lincoln County, on the 1st. The absolute range of temperature for the State was 95°; the greatest daily range was 68°, at Squaw Valley, Elko County, on the 20th.

At the majority of stations the maximum temperature for the month was recorded on the 11th or the 30th. The coldest weather was experienced from the 1st to the 8th, inclusive, and the minimum temperature for the month occurred at most of the stations on the 7th.

**Precipitation.**

The average precipitation for the State was 0.59 inch, which is 0.21 inch above the normal for the month, and 0.48 inch in excess of the average for the corresponding month of 1905. The average precipitation for the northern section was 0.69 inch; for the eastern section, 1.71 inches; for the central section, 0.93 inch; for the western section, 0.29 inch; and for the southern section, 0.32 inch. The greatest monthly amount was 1.71 inches, at Hamilton, White Pine County. The least monthly amount was none, at Logan, Lincoln County, Mill City, Humboldt County, and Wadsworth, Washoe County. The greatest amount recorded in twenty-four hours was 0.98 inch, at Eureka, Eureka County, on the 27th. The average number of rainy days was 2.

Showers were general on the 5th and 16th in the northern, eastern and central sections, and general rains covered the

greater part of the State from the 25th to the 28th, inclusive. Light scattered showers fell from the 1st to the 4th, inclusive, and on the 6th and 15th.

**Wind.**

The prevailing direction of the wind was from the south. The total movement of the wind at Reno was 5,202 miles; the total movement at Winnemucca was 4,507 miles. The maximum velocity at Reno was 31 miles per hour, from the west, on the 27th; the maximum velocity at Winnemucca was 30 miles per hour, from the southwest, on the 11th. The average velocity was 6.6 miles per hour.

**Sunshine and Cloudiness.**

The average number of clear days was 16, partly cloudy days 9, and cloudy days 5.

**COMPARATIVE DATA FOR JUNE.**

Year.	Temperature.			Average precipitation.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1889	70.0	110	30	0.22	.....	.....	.....	.....	.....
1890	61.5	109	24	0.05	.....	.....	.....	.....	s
1891	59.8	97	8	1.18	5	.....	.....	.....	s
1892	62.8	110	22	1.06	4	.....	.....	.....	w
1893	63.8	100	18	0.04	0	.....	.....	.....	w
1894	57.8	92	20	1.12	5	.....	.....	.....	sw
1895	62.9	109	14	0.13	1	20	6	4	sw
1896	68.7	117	25	0.22	.....	.....	.....	.....	.....
1897	62.8	112	20	0.37	.....	.....	.....	.....	.....
1898	65.0	104	20	0.19	1	20	7	3	w
1899	63.7	103	21	0.60	2	22	4	4	w
1900	67.7	111	28	0.32	2	19	5	6	w, sw
1901	59.1	99	21	0.15	1	19	8	3	w
1902	66.3	116	20	0.04	0	24	3	3	sw
1903	66.5	113	28	0.45	3	17	8	5	sw
1904	63.6	106	11	0.04	1	21	5	4	sw
1905	61.9	101	24	0.11	1	21	5	4	sw
1906	60.2	115	20	0.59	2	16	9	5	s

**MISCELLANEOUS PHENOMENA.**

*Fog*—Hamilton, 16th; Morey, 27th, 28th.

*Hail*—Austin, 5th; Elko, 5th; Hamilton, 4th, 5th; Squaw Valley, 6th, 26th.

*Sleet*—Hamilton, 5th; Squaw Valley, 5th.

*Halo, Solar*—Carson City, 1st, 2d, 7th, 9th, 13th, 28th; Reno, 2d, 9th.

*Halo, Lunar*—Carson City, 2d, 4th.

*Thunderstorms*—Austin, 2d, 5th; Beowawe, 25th, 26th; Carson City, 1st, 25th; Fallon, 30th; Hamilton, 27th; Hazen, 25th; Lewers' Ranch, 24th; Paradise Valley, 27th; Potts, 26th, 27th; Reno, 25th, 30th; Squaw Valley, 2d, 5th, 26th, 27th; Wabuska, 25th, 26th; Winnemucca, 27th.

*High Winds*—Carlin, 15th; Clover Valley, 5th; Columbia, 5th; Eureka, 25th; Fallon, 1st, 3d, 5th, 7th, 8th, 25th, 26th; Geyser, 15th; Hamilton, 3d, 4th, 5th; Hazen, 2d, 3d, 4th, 5th, 6th, 8th, 15th, 25th, 26th, 27th, 28th; Logan, 4th, 5th, 9th, 12th, 21st, 23d, 25th, 26th; Lovelock, 25th; Palmetto, 5th, 26th; Reno, 3d, 5th, 8th, 15th, 27th; Wabuska, 15th; Winnemucca, 11th.

*Killing Frost*—Battle Mountain, 1st, 6th, 18th; Clover



Valley, 7th, 8th, 23d; Eureka, 6th, 7th, 23d; Gardnerville, 1st, 7th; Geyser, 1st, 2d, 6th, 7th, 8th, 17th, 23d, 24th, 25th, 26th, 27th, 28th, 29th, 30th; Halleck, 7th, 8th; Hamilton, 1st, 5th, 6th, 7th, 17th, 23d, 24th; Lewers' Ranch, 7th; Lovelock, 13th; Palmetto, 1st, 6th, 7th, 17th, 28th; Pioche, 1st, 3d, 6th, 7th, 8th, 24th; Potts, 1st, 2d, 6th, 7th, 8th, 14th, 17th, 18th, 23d, 24th, 25th; Reno, 7th; San Jacinto, 1st, 7th, 8th, 22d, 23d; Squaw Valley, 1st, 2d, 7th, 8th, 14th, 17th, 20th, 23d, 24th, 25th; Tecoma, 7th.

#### NOTES.

Mrs. J. H. Martin, the coöperative observer at Martin's Ranch, which is about two miles from Gardnerville, was compelled to give up her observational work on account of a change in residence. The equipment has been transferred to Gardnerville under the charge of Mr. Lawrence Ezell, who will continue the records which Mrs. Martin has faithfully kept for a number of years. The transfer has necessitated a change in the designation of the station from Martin's Ranch to Gardnerville. As the station was only moved about two miles, and the climatic conditions are practically the same in the new location, the records of both places will be used in establishing a normal.

The station at Candelaria has been closed owing to the fact that Mr. Chas. N. Platt, the coöperative observer, has moved away from that place, and another competent observer could not be secured.

Mr. G. S. Webb, manager of the Rogers Ranch, has succeeded Mr. W. T. Onyon as coöperative observer at Lovelock.

The Chief of the Weather Bureau has authorized the establishment of a regular coöperative station at Mina, Esmeralda County, with Mr. T. G. Watterson in charge.

#### WEATHER BUREAU STATION AT TONOPAH.

The Chief of the Weather Bureau has established a regular Weather Bureau station at Tonopah, Nye County, under charge of Mr. J. C. Piercy, who has been in the service for a number of years. The elevation of this new station is 6,000 feet; latitude,  $38^{\circ} 04'$ ; longitude,  $117^{\circ} 14'$ .

#### TEMPERATURE ON MOUNT ROSE.

The maximum temperature for June on Mount Rose was  $60^{\circ}$ , on the 30th, and the maximum at Reno was  $88^{\circ}$  on the same date. The minimum temperature on the mountain was  $10^{\circ}$ , on the 7th, and the minimum at Reno was  $32^{\circ}$  on the same date.

#### OBSERVERS' REMARKS.

CARSON CITY—Light thunderstorms occurred southeast of this station on the 1st and 25th. C. W. FRIEND.

COLUMBIA—Lightning was observed in the north at 7:15 p. m. of the 27th. J. M. KANE.

EUREKA—Ice formed about one-half inch in thickness on the morning of the 7th. A dust storm occurred from 3:30 p. m. to 4:30 p. m. of the 25th. CLAY SIMMS.

FALLON—The temperature for the month was below the normal, and growth was retarded. A very severe windstorm occurred from 1:30 p. m. to 3:30 p. m. of the 25th. R. W. HAWLEY.

GEYSER—This has been a cold month, and rather unfavorable for growth. Frost formed on several mornings.

A. D. CAMPBELL.

GOLCONDA—Heavy rainfall occurred about two miles east of this station at 3 p. m. of the 26th, doing some damage to the railroad tracks. JAS. BUCKLEY.

HAMILTON—Very heavy showers fell during the night of the 27th–28th. MRS. L. C. MUIR.

HAZEN—Considerable damage was done by high westerly winds on the 25th. The windstorm was accompanied by thunder. GEO. A. GANSER.

LEWERS' RANCH—Fair growing weather prevailed during the month, and there was plenty of water. MRS. ROSS LEWERS.

LOGAN—A destructive wind and sandstorm occurred on the 5th. LESLIE N. GOODING.

LOVELOCK—A sandstorm occurred on the 5th.

G. S. WEBB.

MCAFEE'S RANCH—There was a good supply of water in the mountain streams during the month. G. A. MCAFEE.

WABUSKA—The weather during the month has been rather cool for the growth of tender vegetation. J. G. YOUNG.

MOUNT ROSE—The ice cap upon the summit had disappeared by the 16th. The departure of snow was six or eight weeks later than last season. There are still large drifts in protected places, and some snow will remain during the entire season. PROFESSOR J. E. CHURCH.

#### EFFECT OF CLIMATE ON MAN.

If one reads of the overthrow of political dynasties and the subversion of trade and commerce, it will occur to him that northmen have usually been conquerors. If we consider the invigorating effect of cold air and marked changes of temperature alone we might expect to find the strongest and most resourceful peoples inside of the Arctic Circle; and if we consider fruitfulness of soil alone we might reasonably expect to find the dominant peoples in the Tropics. But the fact is that the greatest human potentiality occurs somewhere between these two extremes. The boundaries cannot be accurately determined by the naming of certain parallels of latitude, but a close approximation is made to the truth in the statement that the most vigorous people physically and the most resourceful mentally will be found in the most northerly regions that will produce not simply cereal crops, but an abundance of them.

The sweep of the cold wave, as it is known in the United States, is quite distinctly North American. Nowhere else on fertile plains, unless it be in Russia, does the temperature show such wide oscillation within such short periods of time, nor do the icy blasts sweep over such a broad area. It is probable that much of the physical and the intellectual energies that have caused the United States to excel in agriculture, in manufacturing, and in commerce, were produced by the invigorating effects of the cold, dry, highly electrified air of the North American cold wave. The anticyclonic systems of air that constitute cold waves have a marked downward component of motion. This motion brings from a considerable altitude to the surface of the earth some of the high electrical potential of the upper air, which is strongly stimulating to man and to other forms of animal life. These cold north winds have a much greater specific gravity than warm and humid winds, and this condition, added to the force with which they come, scatters and diffuses the befouled air near the surface of the earth.—Prof. Willis L. Moore.



## CLIMATOLOGICAL DATA FOR JUNE, 1906.

Stations	Counties	Temperature (degrees Fahrenheit)										Precipitation (inches)										Observers
		Elevation (feet)	Length of record (years)	Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest 24 hours	Total snowfall (inches)	Number rainy days	Number clear days	Number partly cloudy days	Number dry days	Prevailing wind			
Northern Section.																						
Battle Mountain—1	Lander	4,511	36	60.7	-7.6	89	20	25	1	60	0.45	-0.09	0.15	0.0	4	7	13	10	NE	Agent So. Pacific Co.		
Beowawe—3	Eureka	4,695	36								0.82	+0.38	0.20	0.5	6	17	6	7	S	Agent So. Pacific Co.		
Carlin—3	Elko	4,897	36			90	11				1.00		0.50	0.0	2	15	11	4	SW	Agent So. Pacific Co.		
Clover Valley†—1	Elko	6,000	7	55.6		89	11	29	7	13	0.55		0.35	0.0	6	16	12	2	W	A. H. Wiseman		
Elko—3	Elko	5,063	36	59.6	-4.9	85	11	38	7		0.56	+0.11	0.25	0.0	4				W	Agent So. Pacific Co.		
Golconda—3	Humboldt	4,392	28			85	20				0.75	+0.16	0.75	0.0	1				SW	Agent So. Pacific Co.		
Halleck—3	Elko	5,229	34	59.0	-6.0	90	9	26	8		0.10	-0.06	0.10	0.0	4	10	19	1	W	Agent So. Pacific Co.		
Humboldt—1	Humboldt	4,236	35	62.0	-4.3	84	30	35	4	38	T	-0.35	T	0.0	0	27	0	3	S	Agent So. Pacific Co.		
Lovelock—1	Humboldt	3,977	15	62.1	-7.9	90	30	32	13	54	0.35	+0.31	0.20	0.0	2	12	14	1	SW	G. S. Webb		
Mill City—3	Humboldt	1,225	18			86	30				0.00	-0.12	0.00	0.0	0	8	14	8	SW	Agent So. Pacific Co.		
Palisade—1	Eureka	4,821	25	58.8	-7.3	93	11	34	7	49	1.11	+0.60	0.70	0.0	3	17	4	9	N	Agent So. Pacific Co.		
Quinn River Ranch*—1	Humboldt	4,850	5			90	30				0.05		0.03	0.0	2	20	5	5	W	Agent So. Pacific Co.		
San Jacinto—1	Elko		2	55.8		91	11	30	8	48	1.40		0.60	0.0	3	8	15	7	S	F. M. Payne		
Squaw Valley**—2	Elko	5,100		58.6		100	20	28	1	68	1.59		0.91	0.0	4	14	12	4	W	W. C. Betteridge, Jr.		
Tecoma—1	Elko	4,812	29			90	11	32	7	43	1.28	+0.71	0.70	0.0	4	11	10	9	NW	John G. Scott		
Wells—3	Elko	5,623	35	57.1	-7.4	92	10	36	7										SW	Agent So. Pacific Co.		
Winnemucca—1	Humboldt	4,432	28	59.3	-3.3	87	11	36	7	42	0.80	+0.21	0.45	0.0	6	18	6	6	SW	Agent So. Pacific Co.		
Means				59.0							0.69			0.0	3	14	10	6	SW			
Hamilton—1	White Pine	7,977		53.4		80	11	22	7	41	1.71		0.73	0.0	5	16	11	3	N,S	Mrs. L. C. Muir		
Central Section.																						
Austin—1	Lander	6,594	18	58.4	-1.4	86	11	33	7	36	1.28	+0.50	0.55	0.0	6	15	8	7	W	Dr. W. H. Heinzmann		
Eureka—1	Eureka	6,500	4	57.5		88	11	28	7	42	1.21		0.98	0.0	4	14	8	8	N	Clay Simms		
Potts—1	Nye	6,990	14	56.3		91	30	21	7	55	0.30	+0.20	0.20	T	2	9	9	12	N	Miss Maude Potts		
Means				57.4							0.93			0.0	4	13	8	9	N			
Western Section.																						
Carson City—2	Ormsby	4,660	27	59.2	-2.0	86	20	33	7	46	0.35	-0.08	0.35	0.0	1	17	10	3	SW	C. W. Friend		
Fallon—1	Churchill	3,965	2	63.4		90	18	38	7	42	0.57		0.40	0.0	2	18	2	10	W	R. W. Hawley		
Gardnerville—1 b	Douglas	4,830	8	60.4		96	18	30	1	54	T		T	0.0	0	19	9	2	SW	Lawrence Ezell		
Hazen—2	Churchill	4,050		64.2		92	18	35	4	47	0.19		0.15	0.0	2	10	17	3	W	Geo. A. Ganser		
Lewers' Ranch†—1	Washoe	5,500	19	57.8	-2.8	85	30	32	7	42	0.65	+0.20	0.65	0.0	1	13	14	3		Mrs. Ross Lewers		
Reno—1	Washoe	4,532	36	59.2	-3.6	88	30	32	7	43	0.26	+0.06	0.26	0.0	1	17	9	4	W	U. S. Weather Bureau		
Wabuska—1	Lyon	4,347	4	61.0		88	18	35	7	46	0.30		0.20	0.0	2	20	8	2	SW	J. G. Young		
Wadsworth—1	Washoe	4,077	35	63.6		94	19	38	7	43	0.00	-0.20	0.00	0.0	0	27	2	1	E	Agent So. Pacific Co.		
Means				61.1							0.29			0.0	1	18	9	3	W,SW			
Southern Section.																						
Belmont—1	Nye	8,132	15			91	30	36	6	46	0.10		0.10	0.0	1	22	5	3	S	W. N. Granger		
Columbia—1	Esmeralda	5,750		64.1		87	21	25	6	51	0.17		0.10	0.0	2	20	4	5	S	J. M. Kane		
Geyser—1 a	Lincoln		2	54.4		115	15	49	1	52	0.00		0.00	0.0	0	25	5	0	S	A. D. Campbell		
Logan—1	Lincoln	1,700		60.8		91	11	33	8	54	0.71		0.60	0.0	2	22	6	2	S	Leslie N. Goodding		
McAfee's Ranch*—1	Esmeralda	4,835	3	62.8															S	G. A. McAfee		
Morey—1 d	Nye	7,384	3	60.2		88	19	35	23	45	0.70		0.38	0.0	2	17	6	3	S	C. S. Gibson		
Palmetto—1	Esmeralda	6,780	17	57.3	-2.5	88	21	23	7	48	0.34	-0.26	0.34	0.0	1	23	5	2	E	Wm. Oothout, Jr.		
Pioche—1	Lincoln	6,100	2	62.1		100	21	20	1	61	0.24		0.14	0.0	2	16	3	11	S	A. A. Carmau		
Means				63.1							0.32			0.0	1	21	5	4	S			
State Means and Extremes				60.2	-3.4	115	15	20	1	68	0.59	+0.21	0.98	0.0	2	16	9	5	S			

REFERENCES: 1. Weather Bureau maximum and minimum thermometers in use; 2. self-registering maximum and minimum thermometers, not Weather Bureau. in use; 3. means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station, or against the data in the body of the form, indicates the number of days missing from the record; for instance, "h" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

† Postoffice—Wells. ‡ Postoffice—Franktown. § Postoffice—Amos. \* Postoffice—Dyer. || Postoffice—Eureka. \*\* Postoffice—Golconda.

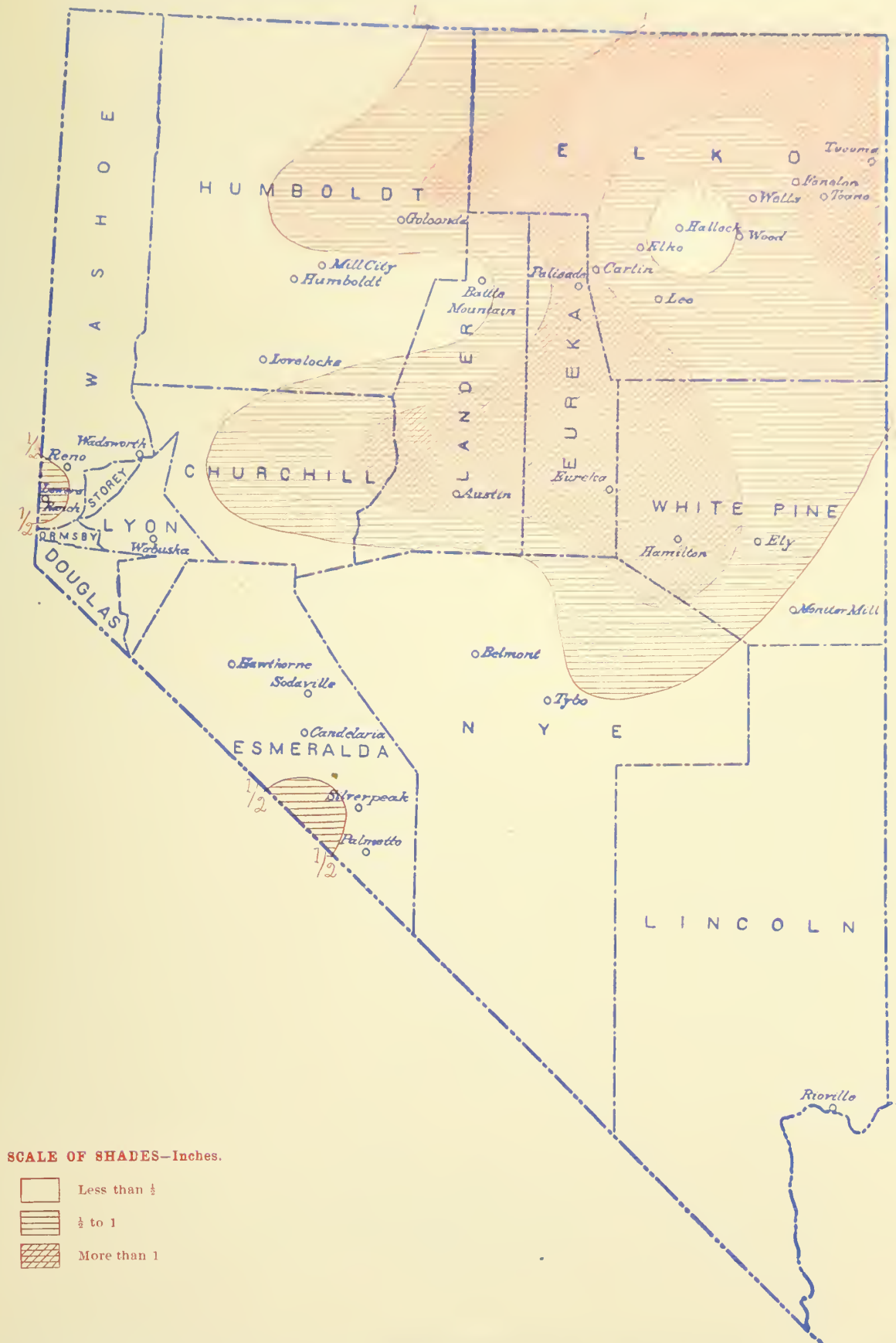


DAILY MAXIMUM AND MINIMUM TEMPERATURES FOR JUNE, 1906.

Stations.	Day of Month.																															Monthly means.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Austin.....	Max. 66	67	66	69	64	56	62	76	76	77	86	77	72	76	80	64	70	81	75	81	82	74	70	78	81	73	61	63	75	81	72.6	
Battle Mountain.....	Min. 41	38	44	43	38	34	33	48	48	47	53	42	43	47	40	41	41	45	44	47	56	44	40	45	47	47	46	46	40	42	52	44.3
Belmont.....	Max. 85	82	86	88	87	84	82	80	80	78	79	76	75	78	80	80	82	84	87	89	89	87	87	88	88	88	88	88	86	78	85	81.7
Belmont.....	Min. 25	40	38	40	40	25	40	45	45	43	43	35	35	44	45	45	40	25	40	43	44	44	42	40	45	45	36	38	44	36	39.7	
Candelaria.....	Max. ....	70	75	76	75	62	68	87	88	89	90	83	78	81	86	84	87	85	83	86	83	80	77	84	77	69	64	71	80	85	74.3	
Carson City.....	Min. 40	41	46	47	48	44	45	54	55	56	60	60	55	55	56	54	56	55	55	56	55	51	38	38	52	52	48	35	40	49	44.1	
Carson City.....	Max. 72	73	64	65	53	60	71	73	75	72	71	73	73	72	70	72	79	79	78	80	80	67	65	75	73	73	65	64	75	79	72.1	
Clover Valley.....	Min. 39	36	53	53	42	40	33	41	44	45	56	53	44	39	40	45	69	78	75	78	80	67	65	75	73	73	65	64	75	79	39.2	
Clover Valley.....	Max. 66	68	77	68	56	65	61	74	74	80	89	44	43	49	43	43	37	39	39	35	40	34	32	34	39	44	47	41	37	43	80.8	
Columbia.....	Min. 49	38	37	43	40	36	29	31	34	40	43	49	41	34	40	43	75	79	89	90	89	82	78	85	82	77	66	75	86	91	47.4	
Columbia.....	Max. 72	72	76	76	67	69	74	84	86	86	90	87	78	87	88	75	79	89	90	89	89	82	72	85	82	77	66	75	87	91	80.8	
Elko.....	Min. 39	44	42	49	46	36	37	45	50	50	52	54	46	41	52	50	44	46	54	53	57	54	40	48	62	47	47	39	47	52	47.4	
Elko.....	Max. ....	67	70	75	76	62	68	87	88	89	90	83	78	81	86	84	87	85	83	86	83	80	77	84	77	69	64	71	80	85	74.3	
Emreka.....	Min. 68	67	71	70	68	56	65	76	75	80	88	86	77	80	86	74	71	82	79	82	83	79	68	79	81	73	65	65	78	81	75.1	
Emreka.....	Max. 34	37	42	39	39	29	28	36	42	44	51	47	39	39	44	41	37	41	39	41	47	37	31	37	46	40	45	39	40	46	39.9	
Fallon.....	Min. 76	78	75	76	64	65	69	83	79	84	88	82	79	84	79	73	75	90	84	87	85	47	44	45	54	54	55	43	46	52	47.7	
Fallon.....	Max. 38	43	47	49	48	41	38	44	46	48	52	55	48	49	49	45	45	51	48	55	47	44	45	54	54	54	55	43	46	52	80.1	
Gardnerville.....	Max. 70	73	77	71	69	40	30	39	77	82	82	76	86	82	70	86	84	96	86	88	89	82	80	85	70	76	78	38	84	86	40.7	
Gardnerville.....	Min. 30	36	52	52	44	40	30	39	77	82	82	76	86	82	70	86	84	96	86	88	89	82	80	85	70	76	78	38	84	86	40.7	
Geyser.....	Max. ....	70	72	72	65	66	65	75	75	77	78	79	82	78	80	84	75	77	75	80	84	87	80	70	78	74	73	65	68	75	82	75.3
Geyser.....	Min. 62	60	63	60	60	50	58	75	73	73	80	77	75	75	68	68	68	73	68	75	77	60	73	76	70	58	60	60	72	78	68.9	
Hamilton.....	Min. 32	39	34	43	32	29	22	38	36	42	47	45	39	43	49	38	30	54	35	35	40	38	25	32	44	41	40	35	34	42	80.4	
Hamilton.....	Max. 77	78	75	75	65	65	60	82	83	87	88	78	78	84	77	77	82	82	92	90	81	77	88	87	78	70	75	52	45	53	63	47.9
Hazen.....	Min. 50	50	55	55	40	40	42	45	48	48	48	48	46	46	46	46	46	50	50	50	50	53	50	53	50	52	55	54	58	57	76.1	
Humboldt.....	Max. 70	76	72	70	65	68	78	80	76	75	74	74	76	84	76	80	84	96	84	87	85	49	50	53	50	54	52	55	54	58	57	47.5
Humboldt.....	Min. 38	40	38	35	38	38	43	42	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	72.7	
Lewers' Ranch.....	Max. 75	79	65	63	55	59	71	70	72	76	77	67	71	72	66	69	78	83	82	79	79	79	81	75	66	65	67	78	76	85	42.9	
Lewers' Ranch.....	Min. 41	38	47	36	40	37	32	46	46	46	55	41	37	40	45	42	36	44	45	49	44	40	44	50	48	45	44	40	42	49	100.5	
Logan.....	Max. 93	92	92	94	96	92	90	99	106	107	109	105	103	102	115	109	97	104	107	108	108	108	106	104	99	98	94	90	93	98	104	61.2
Logan.....	Min. 49	56	50	58	50	58	72	53	54	53	60	63	58	58	63	75	67	59	58	58	62	66	68	70	65	61	67	67	56	63	82.6	
Lovelock.....	Max. 82	81	78	77	78	77	78	77	80	83	86	85	85	86	88	83	87	87	86	88	85	85	82	84	85	81	78	84	90	84	90	41.6
Lovelock.....	Min. 38	38	37	37	38	33	33	34	33	34	33	34	33	34	33	34	33	34	33	34	33	34	33	34	33	34	33	34	33	34	33	81.8
McAfee's Ranch.....	Max. 72	76	78	77	70	71	75	83	85	89	91	87	79	88	87	79	88	91	88	91	91	83	78	87	83	79	68	75	85	88	47.7	
McAfee's Ranch.....	Min. 35	45	47	48	39	35	40	33	39	44	41	55	53	41	39	40	42	37	55	51	41	56	50	35	58	45	45	46	44	47	43.8	
Morey.....	Max. 65	72	68	68	62	62	68	79	82	79	86	82	76	81	83	72	72	84	88	84	85	80	73	79	81	76	60	66	78	83	77.7	
Morey.....	Min. 36	43	38	34	34	24	23	38	36	42	46	46	46	46	46	46	46	36	39	45	42	48	45	50	35	55	55	36	42	31	36	44
Palmetto.....	Max. 67	68	68	68	62	62	68	79	82	79	86	82	76	81	83	72	72	84	88	84	85	80	73	79	81	76	60	66	78	83	77.7	
Palmetto.....	Min. 30	34	34	34	24	23	38	36	42	46	46	46	46	46	46	46	46	36	39	45	42	48	45	50	35	55	55	36	42	31	36	44
Palisade.....	Max. 70	74	72	76	65	68	74	70	70	80	93	82	72	76	74	75	80	87	85	82	80	86	86	84	78	76	68	69	73	79	76.8	
Palisade.....	Min. 40	38	42	44	39	38	34	42	36	45	44	44	42	40	44	46	42	41	43	36	39	42	40	40	34	36	35	45	48	42	40.7	
Pioche.....	Max. 81	76	77	77	80	72	75	85	94	95	96	92	92	90	92	93	79	89	91	92	100	95	81	88	89	87	78	81	93	99	87.0	
Pioche.....	Min. 20	37	37	37	40	22	28	38	42	45	45	46	46	43	42	48	34	36	41	41	44	44	35	28	43	35	35	39	36	39	37.2	
Potts.....	Max. 72	69	71	77	64	60	73	80	82	86	88	87	80	83	86	83	84	83	83	87	84	75	72	72	26	32	36	46	35	33	39	38.9
Potts.....	Min. 29	31	35	34	38	28	21	30	34	37	42	40	33	30	35	42	30	31	35	35	41	37	25	26	32	36	46	35	33	39	34.0	
Quinn River Ranch.....	Max. 74	76	68	67	62	58	66	68	77	82	83	72	73	75	69	74	78	81	81	84	79	73	77	77	85	72	68	64	71	80	88	73.6
Quinn River Ranch.....	Min. ....	71	64	64	52	60	70	71	77	78	78	70	74	74	64	72	77	86	81	87	83	78	85	78	85	72	68	64	71	80	88	73.6
Reno.....	Max. 42	41	42	45	42	42	47	52	47	52	46	46	44	38	49	42	37	46	46	46	46	46	4									



TOTAL PRECIPITATION FOR JUNE, 1906





Stations.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
<i>Northern Section.</i>																																	
Battle Mountain					.15	.07								.15	.50										.05	.20	.45						0.45
Beowawe					T	.02									.06	.25										.35	.50						1.00
Carlín	.06			.03	.03	.03										.06	.25								.03			.25					0.55
Clover Valley																	.10										.75						0.56
Elko																																	0.75
Golconda																																	0.40
Halleek		T			.10	.10																						.10					T
Humboldt				T													.15								T	.20							0.35
Lovelock																																	0.00
Mill City																	.35										.70						1.11
Palisade					.06												.03											.30					0.35
Paradise Valley					.02	.03								.02													T						0.05
Quinn River Ranch																.35										.08	T	.91	.45				1.40
San Jacinto					.60	T								T		.51	.27											.70	.09				1.59
Squaw Valley		T			.28	.03																											1.28
Tecoma																																	
Wells																	.31										.01	.19					0.80
Winnemucca					.14	.01																											
<i>Eastern Section.</i>																																	
Hamilton	T	T	T	T	.35											.05										.03		.55	.73				1.71
<i>Central Section.</i>																																	
Austin	.03				.15											.55											.10	.24	.21				1.28
Eureka				T	.10											.12											.01	.98					1.21
Potts					T																							.10	.20				0.30
<i>Western Section.</i>																																	
Carson City	T				T										T											.35	T	T	.17				0.35
Fallon					T										.40</																		

\* Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, - ANDREW MAUTE, SUPT.

1906



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U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR JULY, 1906.

NEVADA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

IN COOPERATION WITH THE

NEVADA STATE WEATHER SERVICE

(CHARLES W. FRIEND, Director.)

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

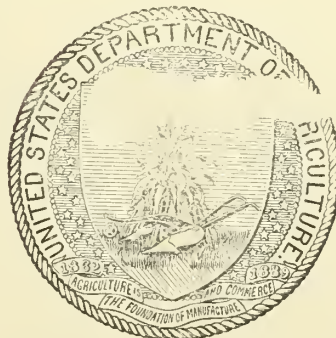
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

H. F. ALPS

ACTING SECTION DIRECTOR

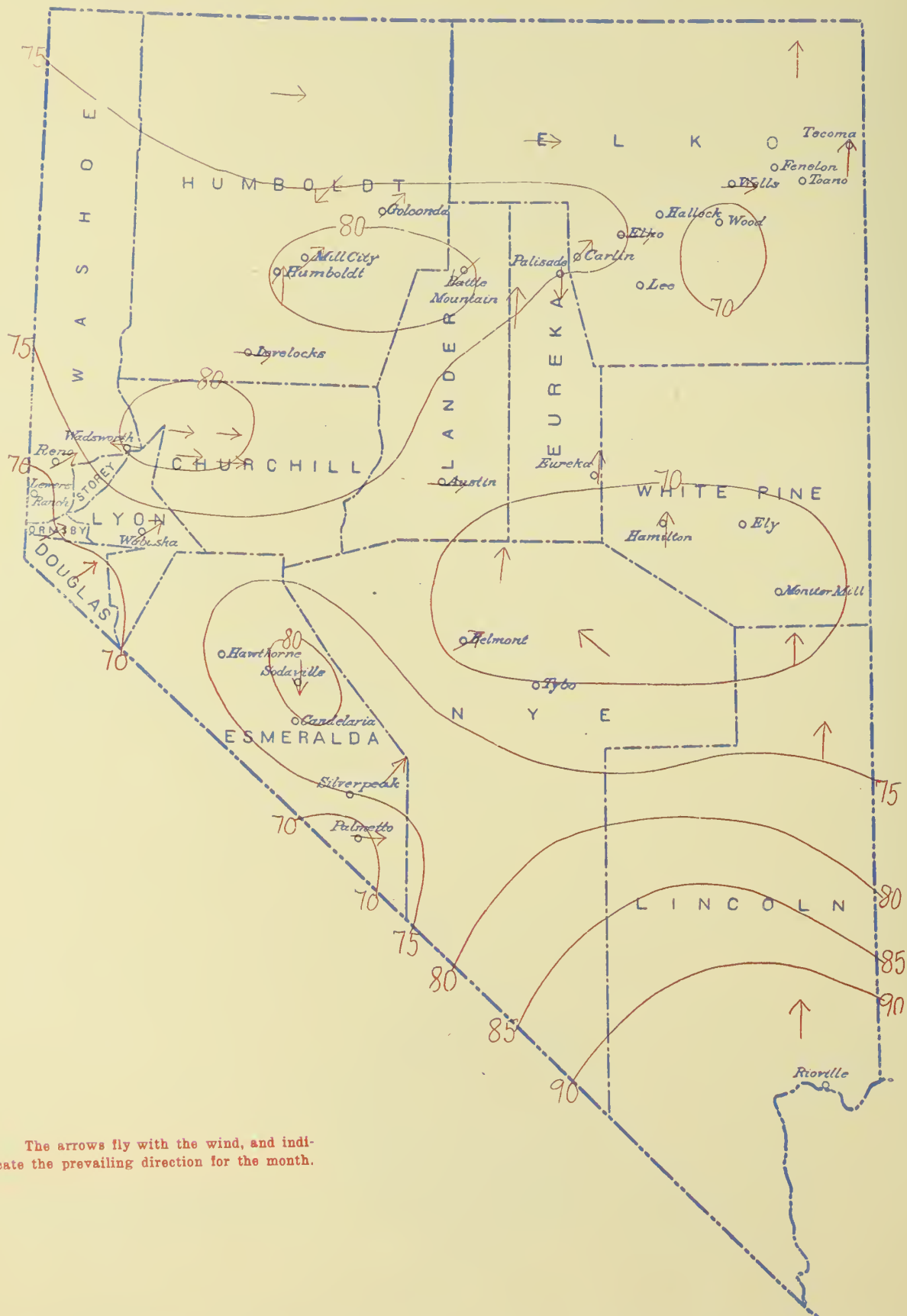


CAPSON CITY, NEVADA:

August 25, 1906.



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR JULY, 1906.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,

HENRY F. ALPS, Acting Section Director.

VOL. XX.

RENO, NEVADA, JULY, 1906.

No. 7.

## GENERAL SUMMARY.

## Pressure.

The mean pressure for the State, reduced to sea level, was 29.91 inches. The highest during the month was 30.13 inches, at Winnemucca, on the first, and the lowest was 29.72 inches, at Winnemucca, on the 30th.

## Temperature.

The mean temperature for the State was 74.7°, which is 4.2° above the normal for the month, and 2.6° in excess of the mean for the corresponding month of 1905. The mean temperature for the northern section was 75.2°; for the eastern section, 64.6°; for the central section, 70.2°; for the western section, 75.9°; and for the southern section, 75.1°. The highest monthly mean temperature was 90.1°, at Logan, Lincoln County. The lowest monthly mean was 64.6°, at Hamilton, White Pine County. The highest temperature was 114°, at Logan, on the 11th and 12th. The lowest temperature was 32°, at Potts, Nye County, on the 25th. The absolute range of temperature for the State was 82°; the greatest daily range was 62°, at Squaw Valley, Elko County, on the 20th, and at Pioche, Lincoln County, on the 11th.

The mean temperature for the month is the highest on record for Nevada, the highest previous mean being 74.0° in July, 1890. It was a month of steady warm weather. The maximum temperatures occurred on various dates, but there were twenty-two stations at which they were recorded on the 11th, 12th, 20th, or 21st. A remarkable feature of the month was that the daily maximum temperature did not fall below 90° at eight stations; at four stations it fell below 90° on only one day, and at seven stations there were from two to six days on which it fell below 90°. The minimum temperatures for the month occurred on a wide range of dates which covered the greater number of days in the month.

## Precipitation.

The average precipitation for the State was 0.68 inch, which is 0.31 inch above the normal for the month, and 0.65 inch in excess of the average for the corresponding month of 1905. The average precipitation for the northern section was 0.12 inch; for the eastern section, 0.99 inch; for the central section, 1.24 inches; for the western section, 0.47 inch; and for the southern section, 1.97 inches.

The greatest monthly amount was 4.58 inches, at Palmetto, Esmeralda County. The least monthly amount was none, at Battle Mountain, Lander County, Humboldt, Humboldt County, and Mill City, Humboldt County. The greatest amount recorded in twenty-four hours was 2.00 inches, at Potts, Nye County, on the 23d. The average number of rainy days was 4.

The average rainfall for the State is the highest on record for July with the exception of July, 1894, which was 0.75 inch, and July, 1896, which was 0.79 inch. Showers fell within the borders of the State during each day of the month. The precipitation was very unevenly distributed, being light in northern districts, where three stations received no rainfall and four stations recorded only a trace. In parts of the southern section the rainfall was heavy. Showers occurred almost daily at Morey and Palmetto. The period of greatest precipitation was from the 22d to the 27th, inclusive. An unusually large number of thunderstorms occurred during the month.

## Wind.

The prevailing direction of the wind was from the west. The total movement of the wind at Reno was 3,947 miles; the total movement at Winnemucca was 3,960 miles. The maximum velocity at Reno was 34 miles per hour, from the south, on the 12th; the maximum velocity at Winnemucca was 31 miles per hour, from the northwest, on the 12th. The average velocity was 5.3 miles per hour.

## Sunshine and Cloudiness.

The average number of clear days was 17, partly cloudy days 9, and cloudy days 5.

## MISCELLANEOUS PHENOMENA.

*Killing Frost*—Potts, 25th.

*Halo, Lunar*—Carson City, 2d; Carson Dam, 1st.

*Hail*—Belmont, 2d, 15th, 16th; Fenelon, 7th; Morey, 24th; Palmetto, 11th, 25th; Reno, 26th.

*High Winds*—Columbia, 4th, 5th, 22d, 24th, 26th; Fallon, 12th; Geyser, 31st; Hazen, 12th, 13th, 14th, 22d, 23d, 24th, 25th, 26th; Logan, 8th, 9th, 10th, 13th, 14th, 15th, 16th, 25th, 27th; Lovelock, 25th, 26th; Palmetto, 7th, 13th, 21st; Reno, 12th; Winnemucca, 12th.

*Thunderstorms*—Austin, 1st, 22d, 23d; Belmont, 5th, 16th, 23d, 24th, 25th, 26th, 27th; Carson City, 3d, 4th, 6th, 12th, 13th, 22d, 24th, 25th, 26th; Carson Dam, 7th, 24th, 25th, 26th, 27th; Clover Valley, 6th, 7th; Columbia, 24th, 25th; Ely, 23d, 31st; Eureka, 13th, 22d, 23d; Fallon, 22d, 23d, 24th, 25th; Fenelon, 13th, 14th, 16th, 20th, 23d, 29th, 31st; Gardnerville, 13th, 23d; Geyser, 2d, 3d, 5th, 6th, 7th, 11th, 13th, 14th, 15th, 20th, 22d, 23d, 25th, 26th; Hamilton, 2d, 6th, 13th, 16th, 17th, 19th, 20th, 21st, 22d, 23d, 24th, 25th, 26th; Hazen, 22d, 23d, 24th, 25th, 26th; Logan, 4th; Morey, 3d, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th, 15th, 16th, 17th, 21st, 24th; Palmetto, 3d, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th,



14th, 15th, 16th, 21st, 22d, 23d, 24th, 25th, 26th 27th, 28th; Potts, 1st, 10th, 14th, 15th, 22d, 23d, 24th, 25th, 26th, 27th, 28th; Reno, 4th, 5th, 6th, 7th, 12th, 13th, 22d, 24th, 25th, 26th; San Jacinto, 6th; Soda Lake, 14th, 15th, 22d, 23d, 24th, 25th, 26th; Squaw Valley, 2d, 6th, 7th, 16th, 20th, 23d, 29th, 31st; Stillwater, 7th; Tonopah, 12th, 16th, 21st, 22d, 25th, 26th, 27th; Wabuska, 1st, 2d, 3d, 4th, 5th, 6th, 7th, 12th, 13th, 22d, 23d, 24th, 25th, 26th, 27th; Wells, 13th, 23d, 31st; Winnemucca, 16th, 23d, 24th.

## COMPARATIVE DATA FOR JULY.

Year.	Temperature.			Average precipitation.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1890.....	74.0	118	28	0.15	.....	.....	.....	.....	sw
1891.....	70.4	102	26	0.53	3	.....	.....	.....	w
1892.....	70.6	115	30	0.67	1	.....	.....	.....	w
1893.....	70.3	110	24	0.40	2	.....	.....	.....	sw
1894.....	71.7	108	32	0.75	5	.....	.....	.....	s
1895.....	62.9	109	14	0.13	1	21	6	4	w
1896.....	72.7	112	33	0.79	.....	.....	.....	.....	.....
1897.....	69.4	116	25	0.28	.....	.....	.....	.....	.....
1898.....	73.5	114	30	0.12	1	23	6	2	w
1899.....	72.6	106	34	0.14	2	22	5	4	w
1900.....	70.6	113	33	0.37	1	23	4	4	w
1901.....	70.8	109	31	0.31	2	21	6	4	sw
1902.....	67.9	116	25	0.44	2	21	5	5	sw
1903.....	65.4	111	26	0.01	1	27	3	1	sw
1904.....	68.7	110	30	0.51	3	19	8	4	sw
1905.....	72.1	109	31	0.03	1	24	5	2	sw
1906.....	74.7	114	32	0.68	4	17	9	5	w

## OBSERVERS' REMARKS.

CLOVER VALLEY—The weather during the month was generally favorable. A. H. WISEMAN.

ELY—A cloudburst occurred in the mountains west of this station on the 28th, but no damage was done.

AILEN C. BRAGG.

EUREKA—A heavy thunder-shower occurred on the afternoon of the 23d. CLAY SIMMS.

FALLON—The weather for the month was generally warm and settled. R. W. HAWLEY.

GARDNERVILLE—There was very little wind during the first part of the month. Several cloudbursts occurred in this vicinity during the month, but no heavy rain fell at this station. LAWRENCE EZELL.

GEYSER—The weather was threatening and sultry during the greater part of the month. There was but little wind. A. D. CAMPBELL.

HAMILTON—Thunder-showers occurred on eleven days in July, none of them being heavy but the one on the 26th, when the rainfall was very heavy for about twenty minutes. MRS. L. C. MUIR.

HAZEN—From the 22d to the 26th, inclusive, it was clear in the forenoons and cloudy in the afternoons, with thunderstorms accompanied by high winds. The nights were cool. GEO. A. GANSER.

LEETVILLE—The month was hot and dry, with occasional sandstorms. W. F. BARTZ.

LOVELOCK—Excellent farming weather prevailed throughout the entire month. G. S. WEBB.

MOREY—A heavy thunder-shower, accompanied by light hail, occurred on the 23d. C. S. GIBSON.

PIOCHE—The majority of the rains during the month occurred in the afternoons. A. A. CARMAN.

STILLWATER—The month has been a very favorable one for growth. E. J. FREEMAN.

WABUSKA—The past month was remarkable for the large number of thunderstorms, and the excess of precipitation. J. G. YOUNG.

WELLS—A severe thunderstorm occurred on the 13th.

PHIL. S. TRIPLETT.

## MOUNT ROSE.

The maximum temperature for July on Mount Rose was 71°, and the minimum was 43°. The total precipitation from July 14th to August 17th was 1.79 inches. The amount of the precipitation at Reno for the same period was 0.77 inch, and the amount at Carson City was 0.22 inch. Professor J. E. Church, Jr., who has charge of the observational work on Mount Rose, states that there is unmistakable evidence of recent high water in White's Creek, which was probably due to the heavy precipitation in the large drainage area on the northern slope of Mount Rose. It is believed that the greater part of the precipitation measured on August 17th fell from July 24th to July 26th, when 0.64 inch fell at Reno. There was a rapid disappearance of the snow-drifts during the latter part of July, and this is partly attributed to the heavy rainfall.

## NOTES.

Mr. J. M. Kane has succeeded Mr. Mason Galloway as coöperative observer at Columbia.

We are pleased to announce that the observational work has been resumed at Belmont by the former coöperative observer, Mr. W. N. Granger.

Mr. D. S. Dickerson has been succeeded as coöperative observer at Ely by Mr. Allen C. Bragg, editor of the *White Pine News*. Mr. Bragg began the observational work on July 23d.

A regular coöperative observer's equipment has been issued to the station at Golconda, Humboldt County, with Mr. Jas. Buckley, agent Southern Pacific Company, in charge, and to the station at Wells, Elko County, under charge of Mr. Phil. S. Triplett, editor of *The Herald*.

The Chief U. S. Weather Bureau has authorized the establishment of the following regular coöperative stations in the tract of land covered by the Truckee-Carson irrigation project: Fernley, Lyon County, with Mr. Robert Benson in charge; Carson Dam, with Mr. W. H. Anderson in charge; Leetville, with Mr. W. F. Bartz in charge; Soda Lake, with Mr. Wm. Willis in charge; Stillwater, with Mr. E. J. Freeman in charge. The last four stations are in Churchill County.

## DELAYED REPORT.

Stillwater (Churchill County) report for July, 1906: Mean temperature, 75.2°; highest, 99°, on the 12th; lowest, 49°, on the 9th; greatest daily range, 46°. Precipitation, not recorded. Number of clear days, 22; partly cloudy, 5; cloudy, 4. Prevailing direction of wind, west.



## CLIMATOLOGICAL DATA FOR JULY, 1906.

Stations.	Counties.	Elevation (feet)	Length of record (years)	Temperature (degrees Fahrenheit)							Precipitation (inches)					Sky					Observers
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hrs.	Total snowfall (inches).	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.	Prevailing direction and force of wind.		
Northern Section.																					
Battle Mountain-1.....	Lander	4,511	36	83.2	+5.7	107	20	51	20	56	0.00	-0.13	0.00	0.0	0	11	14	6	NE	Agent So. Pacific Co.	
Beowawe-3.....	Eureka	4,695	36	.....	.....	101	20	.....	.....	.....	.....	.....	.....	.....	.....	19	4	8	S	Agent So. Pacific Co.	
Carlin-3.....	Elko	4,897	36	76.2	-2.8	94	17	60	5	.....	.....	.....	.....	.....	.....	13	18	0	SW	Agent So. Pacific Co.	
Clover Valley†-1.....	Elko	6,000	7	68.3	.....	93	21	41	.....	.....	0.28	.....	0.13	0.0	4	21	10	0	.....	A. H. Wiseman	
Elko-3.....	Elko	5,063	36	75.1	+4.0	100	12	.....	.....	.....	0.06	-0.15	0.01	0.0	6	10	0	21	W	Agent So. Pacific Co.	
Golconda-1 j.....	Humboldt	4,392	28	78.2	.....	100	20	53	30	44	.....	.....	.....	.....	.....	26	5	0	SW	Jas. Buckley	
Halleck-3.....	Elko	5,229	34	72.2	-0.7	98	22	45	30	.....	T	-0.10	T	0.0	0	15	16	0	.....	Agent So. Pacific Co.	
Humboldt-1.....	Humboldt	4,236	35	80.4	+6.3	96	31	.....	.....	.....	0.00	-0.02	0.00	0.0	0	27	2	2	S	Agent So. Pacific Co.	
Lovelock-1.....	Humboldt	3,977	15	77.4	-1.7	102	14	50	17	49	T	-0.02	T	0.0	0	23	8	0	W	G. S. Webb	
Mill City-3.....	Humboldt	4,225	18	81.3	+5.7	102	19	60	21	.....	0.00	-0.09	0.00	0.0	0	10	11	10	SW	Agent So. Pacific Co.	
Palisade-1.....	Eureka	4,821	25	74.2	-0.3	100	23	43	4	49	0.02	-0.11	0.02	0.0	1	28	0	3	N	Geo. H. Kenyon	
Quinn River Ranch‡-1.....	Humboldt	4,850	5	.....	.....	99	25	.....	.....	.....	0.22	0.22	0.0	1	23	8	0	W	F. M. Payne		
San Jacinto-1.....	Elko	.....	2	71.0	.....	98	21	38	28	52	0.40	.....	0.20	0.0	2	17	14	0	S	W. C. Betteridge, Jr.	
Squaw Valley*-2.....	Elko	5,100	.....	70.8	.....	102	20	38	19	62	T	.....	T	0.0	0	29	2	0	W	John Y. Scott	
Tecoma-1.....	Elko	4,812	29	73.6	-4.4	98	20	44	7	49	0.71	+0.39	0.52	0.0	3	13	6	12	S	Agent So. Pacific Co.	
Wells-1 k.....	Elko	5,623	35	71.7	-1.3	99	21	42	16	56	T	-0.23	T	0.0	0	15	14	2	W	Phil. S. Triplett	
Winnemucca-1.....	Humboldt	4,432	28	75.0	+3.7	97	20	47	30	48	0.06	-0.12	0.03	0.0	2	21	10	0	NE	U. S. Weather Bureau	
Eastern Section.		Means	.....	75.2	.....	.....	.....	.....	.....	.....	0.12	.....	.....	0.0	1	19	8	4	W	.....	
Ely-1.....	White Pine	6,000	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Allen C. Bragg	
Hamilton-1.....	White Pine	7,977	.....	64.6	.....	87	24	42	28	39	0.99	.....	0.55	0.0	6	20	11	0	S	Mrs. L. C. Muir	
Central Section.																					
Austin-1.....	Lander	6,594	18	72.6	+3.7	92	19	54	1	36	0.23	-0.28	0.18	0.0	3	17	6	8	W	Dr. W. H. Heinzmann	
Eureka-1.....	Eureka	6,500	4	70.8	.....	92	19	47	3	39	1.27	.....	0.71	0.0	6	5	19	7	S	Clay Simms	
Potts-1.....	Nye	6,990	14	67.2	.....	94	20	32	25	55	2.22	+1.40	2.00	0.0	6	4	7	20	S	Miss Maude Potts	
Western Section.		Means	.....	70.2	.....	.....	.....	.....	.....	.....	1.24	.....	.....	0.0	5	9	10	12	S	.....	
Carson City-2.....	Ormsby	4,660	27	70.6	+2.6	97	12	43	9	49	0.17	0.00	0.11	0.0	3	26	5	0	SW	C. W. Friend	
Carson Dam-1.....	Churchill	4,032	.....	80.0	.....	99	11	55	1	38	0.13	.....	0.08	0.0	2	20	8	3	W	W. H. Anderson	
Fallon-1.....	Churchill	3,965	2	78.2	.....	101	11	53	30	45	0.01	.....	0.01	0.0	1	19	11	1	W	R. W. Hawley	
Gardnerville-1 b.....	Douglas	4,830	8	69.0	.....	96	19	43	8	50	0.40	.....	0.30	0.0	2	25	6	0	SW	Lawrence Ezell	
Hazen-2.....	Churchill	4,050	.....	82.2	.....	102	12	55	26	41	0.12	.....	0.05	0.0	3	8	19	4	W	Geo. A. Ganser	
Leetville-1.....	Churchill	.....	.....	80.8	.....	102	2	54	29	42	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. F. Bartz	
Lewers' Ranch‡-1.....	Washoe	5,500	19	69.4	+0.6	92	11	46	9	41	0.38	+0.18	0.29	0.0	2	19	8	4	.....	Mrs. Ross Lewers	
Reno-1.....	Washoe	4,532	36	73.4	+3.4	98	13	49	9	44	0.67	+0.58	0.48	0.0	5	25	6	0	SW	U. S. Weather Bureau	
Soda Lake-1 c.....	Churchill	.....	.....	79.0	.....	102	13	50	30	48	.....	.....	.....	.....	.....	21	8	2	W	William Willis	
Wabuska-1.....	Lyon	4,347	4	72.1	.....	95	12	41	1	42	0.65	.....	0.65	0.0	1	17	14	0	SW	J. G. Young	
Wadsworth-1.....	Washoe	4,077	35	80.6	.....	102	3	53	22	41	1.67	+1.45	1.50	0.0	4	27	0	4	E	J. O. Howard	
Southern Section.		Means	.....	75.9	.....	.....	.....	.....	.....	.....	0.47	.....	.....	0.0	3	21	8	2	W, SW	.....	
Belmont-1 o.....	Nye	8,132	15	69.6	+1.0	88	17	52	27	35	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. N. Granger	
Columbia-1.....	Esmeralda	5,750	.....	78.0	.....	108	20	54	1	48	1.20	.....	0.31	0.0	7	2	14	15	SW	J. M. Kane	
Geyser-1 b.....	Lincoln	.....	2	67.6	.....	94	30	40	6	51	0.58	.....	0.36	0.0	3	7	17	7	S	A. D. Campbell	
Logan-1.....	Lincoln	1,700	.....	90.1	.....	114	21	62	1	50	1.41	.....	0.90	0.0	4	19	11	1	S	Leslie N. Goodding	
McAfee's Ranch*-1.....	Esmeralda	4,835	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. A. McAfee	
Mina-1 i.....	Esmeralda	4,600	.....	82.3	.....	101	12	53	28	40	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. G. Watterson	
Morey‡-1.....	Nye	7,384	3	69.5	.....	93	12	47	5	40	2.18	.....	1.22	0.0	13	7	13	11	SE	C. S. Gibson	
Palmetto-1.....	Esmeralda	6,780	17	68.0	+1.1	90	2	45	1	44	4.58	+3.43	0.51	0.0	18	7	5	19	W	Wm. Oothout, Jr.	
Pioche-1.....	Lincoln	6,100	2	74.5	.....	109	22	39	6	62	1.86	.....	0.68	0.0	12	2	8	21	S	A. A. Carman	
Tonopah-1 h.....	Nye	6,000	.....	76.0	.....	93	12	58	27	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	U. S. Weather Bureau	
State Means and Extremes.		.....	.....	74.7	+4.2	114	21	32	25	62	0.68	+0.31	2.00	0.0	4	17	9	5	W	.....	
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REFERENCES: 1. Weather Bureau maximum and minimum thermometers in use; 2. self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3. means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station, or against the data in the body of the form, indicates the number of days missing from the record; for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

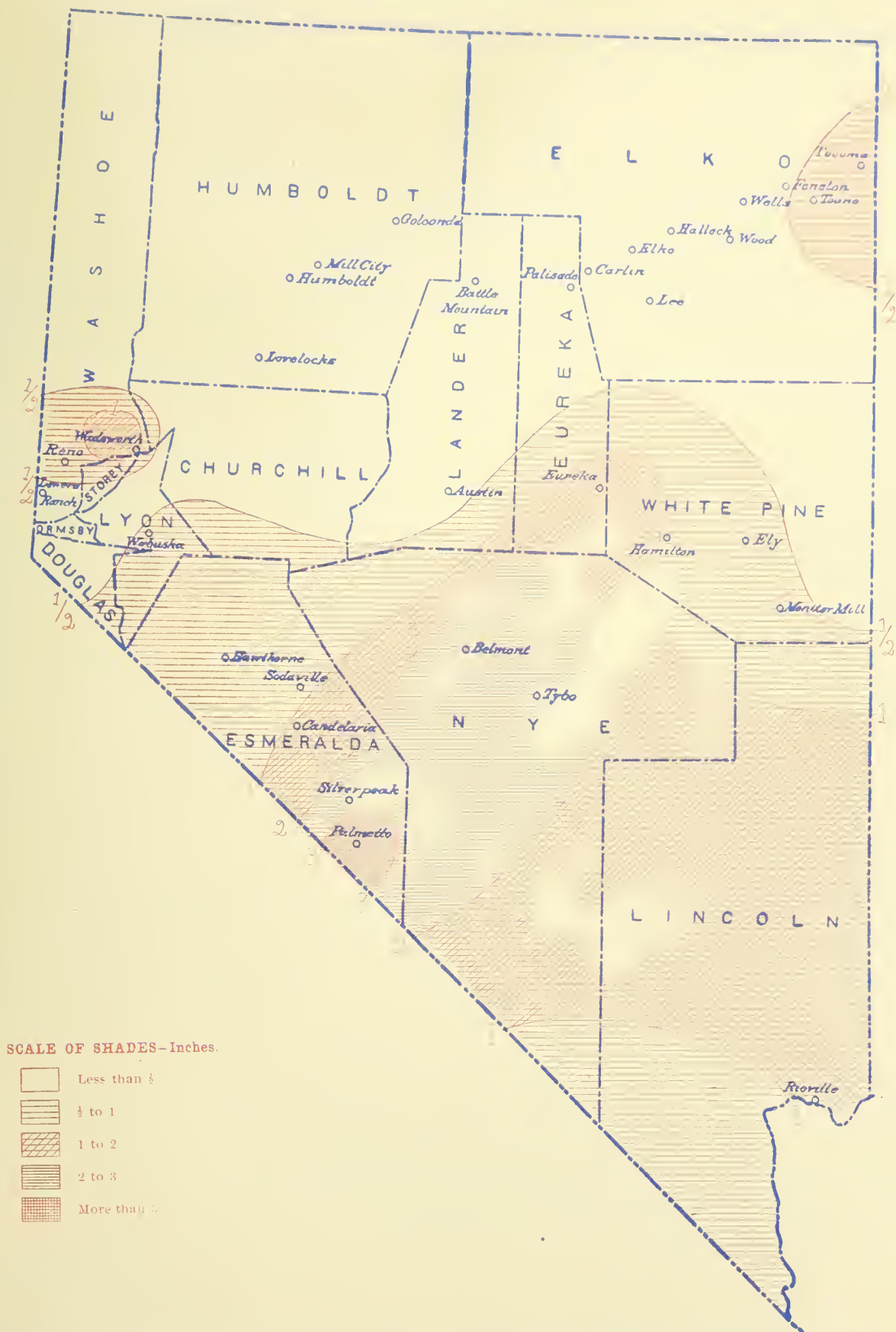
† Postoffice—Wells. ‡ Postoffice—Franktown. § Postoffice—Amos. \* Postoffice—Dyer. ‖ Postoffice—Eureka. \*\* Postoffice—Golconda.



Stations	Day of Month.												Monthly Means																					
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Austin	Max. 84	85	86	87	87	88	87	86	87	91	91	90	89	89	90	91	89	87	92	91	92	92	88	87	90	88	66	89	89	91	85	87.9		
Battle Mountain	Min. 54	55	54	58	57	55	57	54	56	56	60	61	61	57	59	57	56	56	102	102	107	104	105	101	100	96	92	104	104	102	102	100.9		
Belmont	Max. 89	90	94	96	98	98	100	100	102	102	103	102	103	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105.6		
Carson City	Min. 64	68	70	70	72	72	75	75	75	76	76	75	76	76	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77.7		
Carson Dam	Max. 89	91	93	92	92	94	91	89	87	92	92	94	94	90	90	90	86	88	92	91	91	92	92	92	92	92	92	92	92	92	92	92.2		
Clover Valley	Min. 80	84	83	84	85	84	83	82	85	86	86	88	87	86	85	84	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86.8		
Columbia	Max. 93	102	94	99	95	95	98	92	91	95	101	101	102	99	101	96	94	94	102	97	108	100	92	92	102	93	102	93	93	93	93	93.1		
Eureka	Min. 84	85	84	86	81	86	85	85	85	84	86	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83.2		
Fallon	Max. 93	92	96	97	94	94	96	92	94	96	96	94	96	94	96	94	96	94	96	94	96	94	93	93	93	93	93	93	93	93	93	93.1		
Gardnerville	Min. 55	62	59	60	63	64	65	61	64	65	66	61	62	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61.2		
Geyser	Max. 85	82	85	85	85	85	80	80	40	42	47	50	45	47	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48.4		
Golconda	Min. 45	47	45	43	42	40	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47.2		
Hamilton	Max. 78	78	74	78	78	79	72	76	78	80	81	82	82	80	79	80	80	82	84	85	85	85	85	85	85	85	85	85	85	85	85	85	85.5	
Hazen	Min. 45	43	44	44	45	47	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46.9		
Leeville	Max. 67	62	70	70	65	67	70	67	66	64	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63.3		
Lewers' Ranch	Min. 60	61	62	69	65	67	60	62	66	66	67																							
Lewers' Ranch	Max. 87	87	88	88	86	88	87	84	84	89	92	90	86	85	86	86	85	82	84	85	87	87	86	85	81	69	87	86	86	85	84	83	86.5	
Logan	Min. 63	52	53	54	52	53	53	53	46	57	52	56	53	54	55	55	53	49	50	46	50	56	51	54	51	51	51	51	51	51	51	51	51.4	
Logan	Max. 109	113	109	104	101	102	105	104	107	107	112	113	110	105	105	105	103	106	112	114	109	112	104	104	104	104	104	104	104	109	111	107	107.4	
Lovelock	Min. 62	63	69	68	65	69	68	67	74	74	71	77	73	76	73	72	74	71	72	76	81	80	83	79	73	73	73	73	76	76	76	77	77.8	
Lovelock	Max. 90	100	99	100	99	100	97	96	98	99	94	99	94	98	96	93	98	96	100	99	99	96	95	95	97	96	95	94	93	93	93	93	97.8	
Mina	Min. 64	68	61	64	62	64	65	64	60	98	100	101	98	96	97	98	96	65	68	68	68	68	66	66	72	72	72	72	72	72	72	72	72.8	
Morey	Max. 80	82	83	83	84	84	82	88	85	90	91	88	85	87	84	85	87	90	92	90	91	93	93	85	86	78	75	85	86	85	84	83	86.4	
Palmetto	Min. 50	56	56	48	47	50	54	50	54	50	52	58	59	55	52	49	52	52	54	58	55	53	53	50	53	53	50	48	48	48	48	48	50.2	
Palmetto	Max. 86	90	86	80	82	87	83	78	84	88	89	90	86	88	86	88	88	88	88	88	88	88	86	86	86	86	86	86	86	86	86	86	86.7	
Pattisade	Min. 45	46	46	50	51	48	48	52	48	48	50	52	51	58	50	52	50	52	50	52	56	54	50	53	53	50	50	50	50	50	50	50	50.4	
Pioche	Max. 47	52	51	48	53	55	54	53	53	42	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43.3	
Pioche	Min. 47	52	51	48	53	55	54	53	53	42	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43.3	
Pioche	Max. 102	101	96	98	98	98	99	99	102	93	103	101	101	101	95	93	90	100	100	100	108	108	101	101	101	101	101	101	101	101	101	101	101	101.3
Potts	Min. 45	51	50	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41.4	
Potts	Max. 87	85	85	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86.6	
Quinn River Ranch	Min. 42	41	40	41	40	41	43	46	43	43	42	43	42	43	42	43	42	44	42	44	42	44	42	44	42	44	42	44	42	44	42	44	44.2	
Reno	Max. 91	93	92	94	92	93	92	92	88	88	94	97	98	96	94	92	89	90	94	92	91	91	91	92	90	90	90	90	90	90	90	90	91.5	
San Jacinto	Min. 55	53	57	58	56	57	57	57	56	49	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	51.2	
Santa Fe	Max. 84	85	83	83	82	81	90	92	93	91	90	93	93	90	94	96	95	95	95	95	98	97	98	98	98	98	98	98	98	98	98	98	98.7	
Santa Fe	Min. 50	51	53	46	41	51	50	52	51	49	54	53	49	50	52	54	53	53	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45.5	
Soda Lake	Max. 89	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90.0	
Squaw Valley	Min. 81	96	96	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98.8	
Tecoma	Max. 48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48.4	
Tecoma	Min. 56	58	58	60	61	62	58	44	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48.8	
Tonopah	Max. 83	90	91	94	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92.0	
Wabaska	Min. 41	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54									



# TOTAL PRECIPITATION FOR JULY, 1906





## DAILY PRECIPITATION FOR JULY, 1906.

Stations	Pay of Month.																															Total.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Northern Section.																																		
Battle Mountain																																	0.00	
Beowawe																																	0.28	
Carlin	.04														.03					.01				.13									0.06	
Clover Valley							.01							.01	.01								T										T	
Elko																																	0.00	
Gileada																																	0.00	
Halleck																																	0.02	
Humboldt																																	0.18	
Lovebock																																	0.22	
Mill City																																	T	
Palisade																																	0.00	
Paradise Valley																																	0.02	
Quinn River Ranch								.22							.18																		0.18	
San Jacinto																																	0.40	
Squaw Valley							.20	T						T	T																	T	0.71	
Tecoma								.52																									T	0.06
Wells																																		
Winnemucca																																		
Eastern Section.																																		
Ely																																	0.99	
Hamilton		.20					.10	T																										
Central Section.																																		
Austin	.01																																0.23	
Eureka		.12																															1.27	
Potts	.05							.11	T		.05		.18	.04	T	.05								.12	.71	.18							2.22	
Western Section.																																		
Carson City																																	0.17	
Carson Dam																																	0.13	
Fallon																																	0.01	
Gardnerville																																	0.40	
Hazen																																	0.12	
Lewers' Ranch																																	0.38	
Reno																																	0.67	
Wabuska																																	0.65	
Wadsworth																																	1.67	
Southern Section.																																		
Belmont			.09																														1.20	
Columbia																																	0.58	
Geyser		T																															1.41	
Logan			.13	.36																														
McAfee's Ranch																																		
Mina																																	2.18	
Morey		T	.14	T	T	T	T	.14																									4.58	
Palmetto			.35	.38	.05	T		.01	T	T	T	.18	.28	.15	.18	.31																	1.86	
Pioche		T																															.02	
Tonopah												.10					.07	.21																

T indicates trace. \* Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, -  - ANDREW MAUTE, SUPT.

1906



U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR AUGUST, 1906.

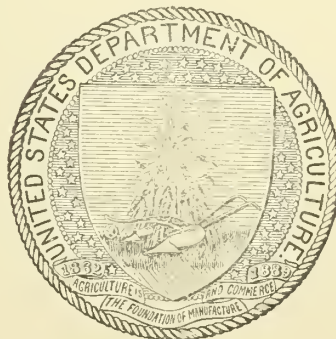
NEVADA SECTION  
OF THE  
CLIMATOLOGICAL SERVICE  
OF THE  
WEATHER BUREAU

IN COOPERATION WITH THE  
NEVADA STATE WEATHER SERVICE  
(CHARLES W. FRIEND, Director.)

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF  
WILLIS L. MOORE  
CHIEF U. S. WEATHER BUREAU

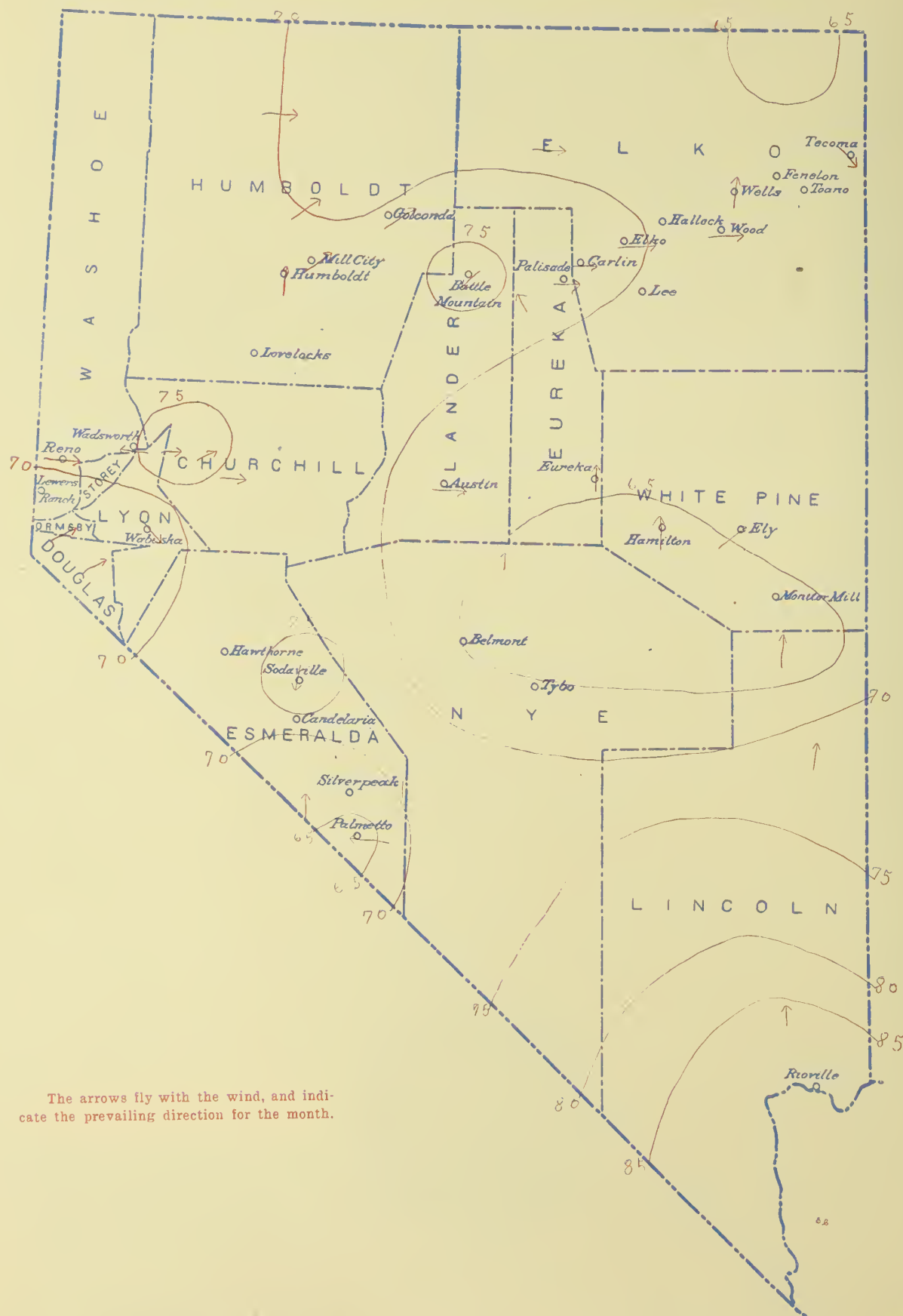
BY  
H. F. ALPS  
ACTING SECTION DIRECTOR



CARSON CITY, NEVADA:  
September 25, 1906.



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR AUGUST, 1906.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**  
 OF THE  
**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,  
 HENRY F. ALPS, Acting Section Director.

VOL. XX. RENO, NEVADA, AUGUST, 1906. No. 8.

**GENERAL SUMMARY.**

**Pressure.**

The mean pressure for the State, reduced to sea level, was 29.88 inches. The highest during the month was 30.20 inches, at Winnemucca, on the 26th, and the lowest was 29.59 inches, at Reno, on the 17th.

**Temperature.**

The mean temperature for the State was 70.2°, which is 0.1° above the normal for the month, and 0.5° lower than the mean for the corresponding month of 1905. The mean temperature for the northern section was 69.7°; for the eastern section, 63.7°; for the central section, 67.4°; for the western section, 72.1°; and for the southern section, 71.2°. The highest monthly mean temperature was 86.0°, at Logan, Lincoln County. The lowest monthly mean was 61.4°, at Hamilton, White Pine County. The highest temperature was 111°, at Logan, on the 15th. The lowest temperature was 26°, at Wells, Elko County, on the 25th. The absolute range of temperature for the State was 85°; the greatest daily range was 62°, at Squaw Valley, Elko County, on the 15th and 16th.

The warmest weather for the month occurred from the 7th to the 10th, inclusive, and from the 15th to the 17th, inclusive. The maximum temperatures for the month occurred at the majority of the stations on the 15th and 16th. The period of coolest weather was from the 22d to the 25th, inclusive, and the minimum temperatures for the month were recorded at the majority of the stations on the 24th and 25th.

**Precipitation.**

The average precipitation for the State was 0.80 inch, which is 0.10 inch above the normal for the month, and 0.53 inch in excess of the average for the corresponding month of 1905. The average precipitation for the northern section was 0.23 inch; for the eastern section, 3.10 inches; for the central section, 0.57 inch, for the western section, 0.06 inch; and for the southern section, 2.20 inches. The greatest monthly amount was 4.93 inches, at Geyser, Lincoln County. The least monthly amount was none, at four stations. The greatest amount recorded in twenty-four hours was 2.07

inches, at Geyser, Lincoln County, on the 20th. The average number of rainy days was 3.

While the rainfall averaged a little more than the normal, it was very unevenly distributed, being very light in portions of the western and northern sections, and generally heavy in the central, eastern, and southern sections. The heaviest rainfall was in the north portion of Lincoln County. During the first seven days of the month there was no precipitation, with the exception of very light scattered showers. From the 8th to the 12th, inclusive, showery weather prevailed, while on the 13th, 14th, and 15th only light scattered showers fell. The heaviest rainfall of the month occurred from the 16th to the 22d, inclusive, except in the western section and parts of the northern section, where the precipitation was very light. After the 23d there was no precipitation, except light local showers in the eastern, central, western, and southern sections during the last three days of the month. There was but little snow left in the mountains at the close of the month, but the streams contained an abundance of water.

**Wind.**

The prevailing direction of the wind was from the west, although at a large number of stations the prevailing direction was from the south and southwest. The total movement of the wind at Reno was 3,983 miles; the total movement at Tonopah was 5,513 miles; the total movement at Winnemucca was 3,552 miles; the total movement at Modena, Utah, was 7,231 miles. The maximum velocity at Reno was 29 miles per hour, from the south, on the 10th; the maximum velocity at Tonopah was 36 miles per hour, from the southeast, on the 16th; the maximum velocity at Winnemucca was 32 miles per hour, from the south, on the 8th; the maximum velocity at Modena, Utah, was 37 miles per hour, from the southwest, on the 18th. The average velocity for the State was 5.9 miles per hour.

**Sunshine and Cloudiness.**

The average number of clear days was 17, partly cloudy days 8, and cloudy days 6.

**MISCELLANEOUS PHENOMENA.**

*Killing Frost*—Halleck, 25th; Hamilton, 24th, 25th; Potts, 23d; Wells, 24th, 25th, 29th.

*Halo, Solar*—Carson City, 31st; Geyser, 22d, 31st; Reno, 31st.

*Corona*—Geyser, 15th, 17th, 29th.

*Hail*—Austin, 11th; Belmont, 17th, 18th; Geyser, 13th; Palmetto, 20th, 21st; Tonopah, 21st.

*High Winds*—Austin, 29th; Clover Valley, 11th, 23d; Fallon, 7th, 17th, 18th, 20th, 30th, 31st; Hazen, 25th; Palmetto, 9th; Potts, 2d, 10th, 30th; Reno, 8th, 10th, 21st; Tonopah, 16th; Winnemucca, 8th.

*Earthquake*—Carson City, 18th.



**Thunderstorms**—Austin, 8th, 10th, 11th; Belmont, 11th, 12th, 17th, 18th, 20th; Carson City, 7th, 8th, 9th, 11th, 18th, 31st; Carson Dam, 8th, 11th, 17th, 18th, 20th; Ely, 10th, 11th, 12th, 13th, 16th; Eureka, 10th, 11th, 12th, 16th, 21st; Gardnerville, 8th, 9th, 18th, 29th; Geyser, 2d, 8th, 9th, 10th, 11th, 12th, 13th, 14th, 15th, 16th, 17th, 18th, 20th, 21st; Hamilton, 10th; Lovelock, 9th; McAfee's Ranch, 9th, 16th, 20th; Palmetto, 10th, 11th, 16th, 17th, 18th, 19th, 20th, 21st; Potts, 11th, 18th, 21st, 22d; Reno, 7th, 8th, 11th; San Jacinto, 18th; Soda Lake, 8th; Squaw Valley, 10th, 11th, 18th, 19th, 20th; Tonopah, 17th, 18th, 19th, 20th, 21st, 29th; Wabuska, 7th, 8th, 9th, 17th, 18th, 19th, 20th, 21st; Winnemucca, 8th, 10th, 11th, 20th, 21st.

**Sandstorm**—Soda Lake, 28th, 29th, 30th.

#### COMPARATIVE DATA FOR AUGUST.

Year.	Temperature.			Average precipita- tion.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1890	70.1	109	28	2.06					
1891	72.0	101	25	0.44					s
1892	71.2	105	20	0.01					
1893	71.1	104	25	0.26	2	16	7	8	sw
1894	71.0	105	30	0.45					sw
1895	70.6	112	24	0.15					
1896	69.0	109	34	0.82					
1897	73.3	110	31	0.31					
1898	73.6	112	29	0.45	2	18	8	5	sw
1899	63.7	99	20	0.82	3	19	5	7	w
1900	66.6	110	30	0.04	0	22	6	3	sw
1901	68.3	101	29	2.05	6	17	5	9	sw
1902	68.9	117	30	0.22	2	21	5	5	sw
1903	69.7	114	28	0.10	1	24	6	1	sw
1904	68.6	105	22	1.18	7	12	8	11	sw
1905	70.7	108	31	0.27	1	21	6	4	sw
1906	70.2	111	26	0.80	3	17	8	6	w

#### OBSERVERS' REMARKS.

**AUSTIN**—The 16th was the hottest day of the season, with a maximum temperature of 94°. DR. W. H. HEINZMANN.

**BELMONT**—Considerable hail fell with the rain on the 17th and 18th. W. N. GRANGER.

**CARSON CITY**—A light earthquake occurred at 4:30 a. m. of the 18th, with vibrations from east to west. C. W. FRIEND.

**CLOVER VALLEY**—Light smoke prevailed during the latter part of the month. A. H. WISEMAN.

**ELY**—On the night of the 17th there was a cloudburst near Ely. ALLEN C. BRAGG.

**FALLON**—Generally fine settled weather prevailed.

R. W. HAWLEY.

**GEYSER**—This has been a very disagreeable month. The weather was showery and threatening, and a great deal of damage was done by the heavy rains. The rainfall for August was the heaviest monthly amount of the season

A. D. CAMPBELL.

**HAMILTON**—Unusually heavy thunder-showers occurred during the month. MRS. L. C. MUIR.

**HAZEN**—Very favorable weather prevailed during the month. GEO. A. GANSER.

**LEETVILLE**—The month was characterized by warm days and cool, breezy evenings. W. F. BARTZ.

**LEWERS' RANCH**—The weather during the month was favorable for ranch work. MRS. ROSS LEWERS.

**MCAFEE'S RANCH**—The supply of water was ample.

G. A. MCAFEE.

**PALMETTO**—An unusually large number of thunderstorms occurred. WM. OOTHOUT, JR.

**SODA LAKE**—Sandstorms occurred on the 28th, 29th, and 30th. WM. WILLIS.

**WABUSKA**—The weather for the month was sultry, with very little wind. J. G. YOUNG.

#### DELAYED REPORTS.

Lewers' Ranch (Washoe County) report for April, 1906: Mean temperature, 47.3°; departure from the normal, +0.4°; highest, 81°, on the 20th; lowest, 17°, on the 1st; greatest daily range, 43°. Total precipitation, 1.88 inches; departure from normal, -0.31 inch; greatest amount in any 24-hour period, 0.90 inch, on the 29th; total snowfall, 0.3 inch; number of days with measurable precipitation, 5. Number of clear days, 11; partly cloudy, 12; cloudy, 7.

Wadsworth (Washoe County) report for August, 1906: Mean temperature, 75.0°; departure from the normal, -2.8°; highest, 103°, on the 15th; lowest, 52°, on the 22d; greatest daily range, 38°. Total precipitation, 0.00 inch; departure from the normal, -0.18 inch. Number of clear days, 31; partly cloudy, 0; cloudy, 0.

#### NOTES.

Mr. Leslie N. Goodding has been succeeded as coöperative observer at Logan by Mr. Chas. Arney.

Mr. J. M. Heizer has succeeded Mr. W. H. Anderson as coöperative observer at Carson Dam.

#### MOUNT ROSE.

The maximum temperature for August on Mount Rose was 69°, and occurred during the first half of the month. The minimum temperature was 30°, on the 21st and 22d. The maximum temperature at Reno for August was 95°, on the 9th, and the minimum was 42°, on the 23d.



## CLIMATOLOGICAL DATA FOR AUGUST, 1906.

		Temperature (Fahrenheit)										Precipitation (Inches)										Days			
Stations	Counties	Elevation (feet)	Mean	January					February					Total	Days	Days	Days	Days	Days	Days	Remarks				
				Max	Min	Range	Days	Days	Days	Max	Min	Range	Days									Days	Days		
Northern Section.																									
Battle Mountain-1	Lander	4,911	36	75.0	+0.3	102	76	48	1	18	T	0.12	T	0.0	0	16	8	7	SW	Agent So. Pacific Co.					
Beowawe-3	Eureka	4,685	36													19	12	0	SW	Agent So. Pacific Co.					
Carlin-3	Elko	4,897	36	72.3	+2.9	95	16	3	15		0.00	-0.33	0.00	0.0	0	18	8	3	W	Agent So. Pacific Co.					
Clover Valley*-4	Elko	6,000	7	68.2		93	15	35	21	47	0.03		0.03	0.0	1	17	13	1	W	A. H. Wieman					
Elko-3	Elko	5,063	36	71.8	+2.1	100	8	50	22		0.06	-0.10	0.06	0.0	1	14	0	17	W	Agent So. Pacific Co.					
Golconda-1	Humboldt	4,392	28	71.6		99	10	10	21	43	0.05	0.00	0.05	0.0	1	27	1	0	SW	Jas. Buckley					
Halleck-3	Elko	5,229	34	69.8	0.0	96	8	30	25		T	-0.17	T	0.0	0	5	25	1		Agent So. Pacific Co.					
Humboldt-1	Humboldt	4,236	35	70.1	-2.9			50	21		T	0.03	T	0.0	0	23	1	4		Agent So. Pacific Co.					
Lovelock-1	Humboldt	3,977	15	73.8	-1.7	102	30	38	26	36	T	0.00	T	0.0	0	20	5	6		G. S. Webb					
Mill City-3	Humboldt	4,225	18			100	17	50	21		0.00	-0.28	0.00	0.0	0	18	1	12	SW	Agent So. Pacific Co.					
Palisade-1	Eureka	4,821	25	70.1	-2.1	102	16	35	25	38	T	-0.34	T	0.0	0	20	7	4	W	Geo. H. Kenyon					
Quinn River Ranch*-1	Humboldt	4,850	5	70.3		100	9	39	14	51	0.26		0.20	0.0	3	22	7	2	W	F. M. Payne					
San Jacinto-1	Elko		2	61.1		97	12	36	27	56	0.95		0.45	0.0	3	19	9	3		W. C. Betteridge, Jr.					
Squaw Valley**-2	Elko	5,100		66.8		104	10	34	14	62	0.18		0.18	0.0	1				W	John Y. Scott					
Tecoma-1	Elko	4,812	29	69.0	-7.0	99	10	39	21	50	1.15	+1.31	0.65	0.0	4	11	10	7	SW	Agent So. Pacific Co.					
Wells-1	Elko	5,623	35	65.3	-6.5	98	16	26	25	58	0.23	0.01	0.10	0.0	6	9	16	6	S	Phil. S. Triplett					
Winnemucca-1	Humboldt	4,432	28	69.6	-1.0	97	16	38	21	47	0.45	0.37	0.24	0.0	4	22	5	1	SW	U. S. Weather Bureau					
Eastern Section.		Means		69.7							0.23			0.0	2	18	8	5	W						
Ely-1	White Pine	6,000	17	66.0	+1.5	92	15	41	24	45	3.00	+1.85	1.78	0.0	8	10	7	14	SW	Allen C. Bragg					
Hamilton-1	White Pine	7,977		61.4		87	16	32	25	43	3.21		0.90	0.0	11	20	7	4	S	Mrs. L. C. Muir					
Central Section.		Means		63.7							3.10			0.0	10	15	7	9	S, SW						
Austin-1	Lander	6,594	18	69.2	+0.1	94	16	43	24	35	0.97	+0.51	0.37	0.0	7	15	7	9	W	Dr. W. H. Heinemann					
Eureka-1	Eureka	6,500	4	68.5		94	16	38	25	41	0.65		0.21	0.0	7	7	15	9	S	Clay Simms					
Potts-1	Nye	6,990	14	64.6		98	2	31	23	57	0.10	-0.53	0.10	0.0	1	10	5	16	S	Miss Maude Potts					
Western Section.		Means		67.4							0.57			0.0	5	11	9	11	S						
Carson City-2	Ormsby	4,669	27	67.8	+1.0	93	7	39	25	48	0.10	-0.03	0.06	0.0	2	23	6	2	SW	C. W. Friend					
Carson Dam-1	Churchill	4,032		74.8		98	7	45	25	45	0.10		0.10	0.0	1	18	13	0	SW	J. M. Heizer					
Fallon-1	Churchill	3,965	2	74.6		98	8	42	25	46	T		T	0.0	0	19	7	5	W	R. W. Hawley					
Gardnerville-1	Douglas	4,830	8	67.0		91	15	38	22	16	0.20		0.10	0.0	2	16	8	7	SW	Lawrence Ezell					
Hazen-2	Churchill	4,050		79.0		102	15	47	25	39	0.03		0.03	0.0	1	25	5	1	W	Geo. A. Ganser					
Leetville-1	Churchill			76.7		100	7	50	23	41	0.00		0.00	0.0	0					W. F. Bartz					
Lewers' Ranch*-1	Washoe	5,500	19	67.6	-1.9	92	8	40	23	42	0.07	-0.19	0.05	0.0	2	23	6	2		Mrs. Ross Lewers					
Reno-1	Washoe	4,532	36	70.4	+0.2	95	9	42	23	44	0.15	+0.09	0.13	0.0	2	23	6	2	W	U. S. Weather Bureau					
Soda Lake-1	Churchill			74.9		101	15	43	23	49	0.00		0.00	0.0	0	26	2	3	W	William Willis					
Wabuska-1	Lyon	4,347	4	68.3		93	15	39	25	45	T		T	0.0	0	20	11	0	SW	J. G. Young					
Wadsworth-1	Washoe	4,077	35																	J. O. Howard					
Southern Section.		Means		72.1							0.06			0.0	1	21	7	2	W						
Belmont-1	Nye	8,132	15	65.0	-2.0	89	15	41	24	38	2.21	+1.43	0.86	0.0	6	12	11	8	SW	W. N. Granger					
Columbia-1	Esmeralda	5,750		72.9		99	16	47	22	41	1.53		0.46	0.0	7	7	21	3	S	J. M. Kane					
Geyser-1	Lincoln		2	62.9		95	15	36	27	54	4.93		2.07	0.0	8	11	4	16	S	A. D. Campbell					
Logan-1	Lincoln	1,700		85.0		111	15	61	4	49	0.76		0.62	0.0	2	15	11	5	S	Chas. Arney					
McAfee's Ranch*-1	Esmeralda	4,835	3	67.6		96	14	37	26	51	1.30		0.50	0.0	4	21	6	4	S	G. A. McAfee					
Mina-1	Esmeralda	4,600		77.8		102	7	53	28	40	0.73		0.50	0.0	2	6	17	8	N	T. G. Watterson					
Morey*-1	Nye	7,384	3																	C. S. Gibson					
Palmetto-1	Esmeralda	6,780	17	64.8	-0.6	92	16	38	22	41	3.48	+1.98	0.81	0.0	7	17	5	9	E	Wm. Oothout, Jr.					
Pioche-1	Lincoln	6,100	2	72.7		105	15	44	24	50	3.33		1.51	0.0	8	8	3	20	S	A. A. Carnan					
Tonopah-1	Nye	6,000		71.4		92	15	47	21	27	1.55		0.74	0.0	7	17	12	2	SE	U. S. Weather Bureau					
		Means		71.2							2.20			0.0	6	13	10	8	S						
State Means and Extremes.				70.2	+0.1	111	15	26	25	62	0.80	+0.10	2.07	0.0	3	17	8	6	W						

REFERENCES: 1. Weather Bureau maximum and minimum thermometers in use. 2. Self-registering maximum and minimum thermometers, not Weather Bureau, in use. 3. Means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter (placed after the name of a station, or against the data in the body of the form, indicates the number of days missing from the record; for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

† Postoffice—Wells. † Postoffice—Franktown. † Postoffice—Amos. \* Postoffice—Dyer. † Postoffice—Eureka. \*\* Postoffice—Golconda.

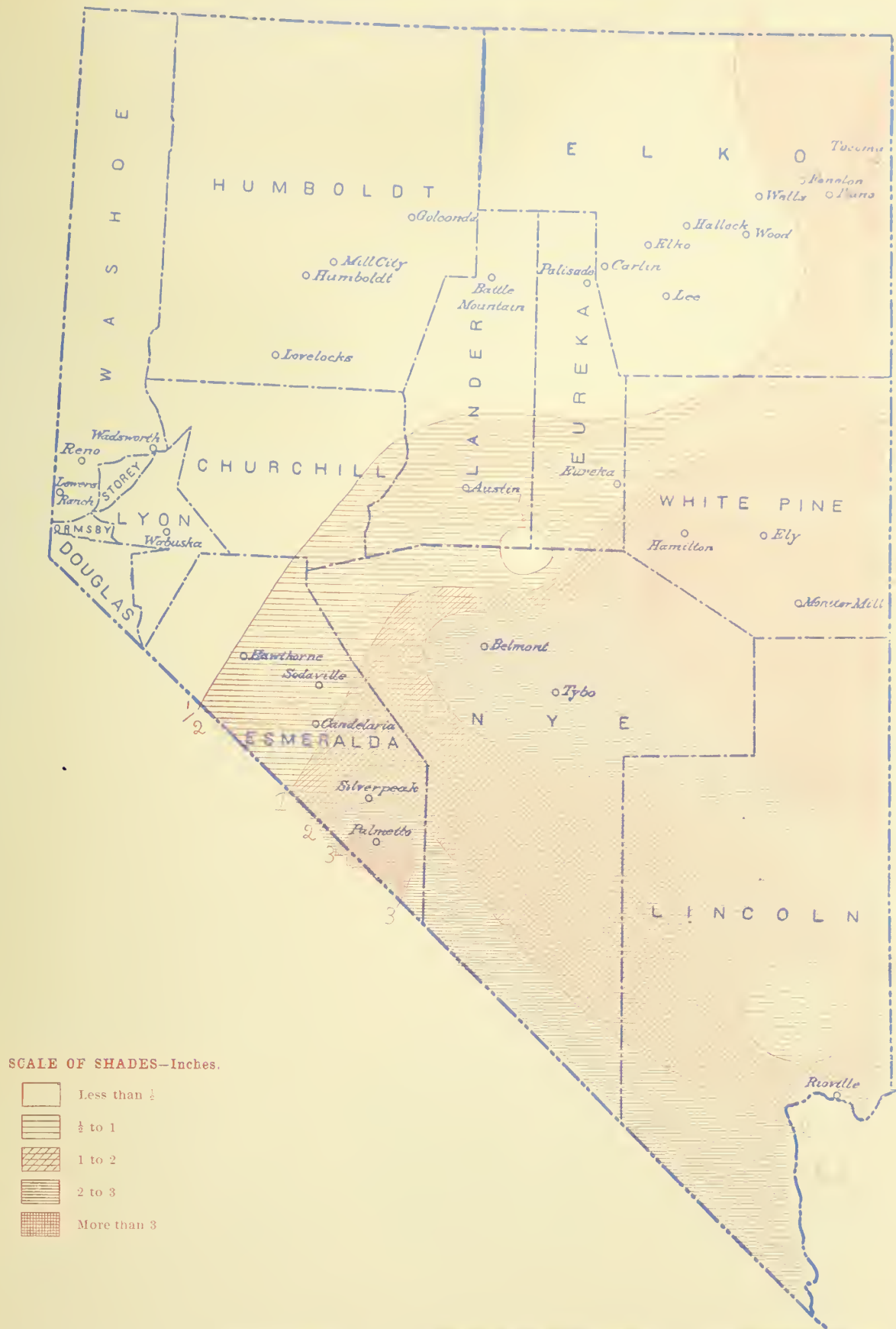


DAILY MAXIMUM AND MINIMUM TEMPERATURES FOR AUGUST, 1906.

Stations.	Day of Month.																															Monthly Means.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Austin	Max. 87	87	87	87	87	89	92	90	91	88	77	83	85	88	92	91	93	88	76	83	74	74	74	69	76	82	84	86	81	81	80	84.2	
Battle Mountain	Min. 51	51	51	53	53	57	61	62	57	58	52	58	57	55	57	57	59	59	57	53	53	46	45	45	52	52	54	54	57	56	56	54.3	
Belmont	Max. 90	91	90	90	92	90	91	98	98	96	97	96	96	98	100	102	100	100	97	97	99	99	96	96	98	99	99	99	99	99	99	96.6	
Belmont	Min. 48	49	48	49	48	49	50	56	56	56	55	54	56	56	58	60	60	58	57	57	56	56	51	51	52	51	52	51	51	55	54	53.5	
Carson City	Max. 81	81	82	83	85	86	87	88	87	84	55	54	54	55	51	53	52	52	67	68	63	63	62	62	69	72	79	75	74	70	70	78.0	
Carson City	Min. 53	58	57	53	56	54	57	56	57	64	55	54	54	55	51	53	52	52	81	89	81	79	77	77	77	88	90	90	87	85	81	86.6	
Carson City	Max. 87	86	85	89	88	90	93	92	92	90	87	87	88	93	95	96	98	94	89	89	81	78	78	77	77	88	90	90	87	85	81	91.1	
Carson City	Min. 49	48	45	48	48	48	55	54	50	50	50	51	52	45	46	48	48	53	52	53	53	41	41	41	39	41	45	47	49	58	46	49.4	
Carson Dam	Max. 91	94	93	93	96	98	97	97	97	97	91	92	93	95	98	98	98	94	93	91	84	83	77	79	84	89	92	92	92	89	85	91.1	
Carson Dam	Min. 62	66	68	68	73	73	73	73	73	73	64	64	66	66	69	67	67	69	70	70	60	56	56	48	45	51	51	51	51	63	61	58.6	
Clover Valley	Max. 88	89	88	87	89	86	86	86	88	90	83	82	87	87	93	92	90	79	73	82	75	77	75	68	75	83	83	81	83	81	83	83.5	
Clover Valley	Min. 46	49	48	47	46	46	46	48	48	48	48	48	48	48	48	48	48	50	57	54	56	53	42	39	35	38	40	41	42	43	47	47.0	
Columbia	Max. 90	92	92	92	97	97	97	97	97	97	87	94	94	96	96	96	96	96	85	80	78	78	84	83	87	87	87	91	91	91	81	89.1	
Columbia	Min. 56	57	58	56	58	58	62	62	62	63	57	59	63	59	59	64	64	57	58	59	52	47	49	48	52	51	57	51	54	54	50	56.7	
Ely	Max. 86	86	86	89	89	89	89	89	89	89	79	86	84	88	92	89	82	78	74	64	68	70	73	74	70	78	89	86	82	82	78	82.0	
Ely	Min. 48	52	47	47	47	49	52	54	55	48	56	56	56	45	45	45	52	52	54	56	55	49	41	41	40	42	58	45	46	43	45	50.0	
Eureka	Max. 87	88	89	89	89	89	89	89	89	89	78	79	86	89	93	94	88	82	75	74	74	77	78	78	78	85	86	86	86	80	80	84.5	
Eureka	Min. 50	59	52	50	52	54	53	59	56	55	56	59	59	49	55	57	62	59	57	57	52	49	46	46	48	48	48	48	49	49	46	52.5	
Fallon	Max. 93	95	93	95	96	95	96	98	96	90	90	90	96	94	91	98	95	95	93	86	86	86	75	75	76	76	89	83	79	78	78	83.9	
Fallon	Min. 59	63	63	65	68	71	68	63	65	65	60	59	52	50	55	56	65	65	66	66	59	52	44	45	42	46	50	58	58	51	57	56	56.8
Gardnerville	Max. 87	88	87	88	89	89	89	88	88	87	86	89	91	89	91	91	89	89	90	84	76	78	75	77	73	76	78	89	83	79	78	78	80.0
Gardnerville	Min. 45	43	44	44	49	50	51	50	55	50	51	44	49	45	50	52	52	52	52	53	45	41	38	53	59	53	54	51	67	57	45	44	50.0
Geyser	Max. 90	89	90	92	93	90	93	91	90	92	85	83	85	90	93	94	88	73	62	67	72	75	71	73	72	75	80	81	81	81	81	81	82.3
Geyser	Min. 45	47	48	48	47	47	47	47	47	47	52	43	43	41	45	45	45	45	45	45	40	40	42	40	38	40	36	37	40	42	40	43.5	
Goconda	Max. 90	94	95	91	92	91	94	97	96	99	89	95	90	90	90	90	90	95	86	84	80	73	70	80	82	89	89	88	89	87	86	89.2	
Goconda	Min. 55	57	58	53	55	58	57	57	60	65	60	61	60	53	52	54	56	57	75	75	62	58	50	45	40	41	46	47	48	47	47	47	53.9
Hamilton	Max. 82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82.0
Hamilton	Min. 52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52.0
Hazen	Max. 95	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96.0
Hazen	Min. 67	63	63	65	68	71	68	63	65	65	60	59	52	50	55	56	65	65	66	66	59	52	44	45	42	46	50	58	58	51	57	56	56.0
Leetville	Max. 93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93.0
Leetville	Min. 61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61.0
Lewers' Ranch	Max. 83	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82.0
Lewers' Ranch	Min. 46	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47.0
Logan	Max. 101	104	107	110	106	104	106	108	107	108	109	109	109	110	110	111	105	100	98	94	93	95	96	97	97	100	101	101	100	100	100	100	101.0
Logan	Min. 73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73.0
Lovelock	Max. 95	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96.0
Lovelock	Min. 50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50.0
McAfee's Ranch	Max. 92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92.0
McAfee's Ranch	Min. 44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44.0
Mina	Max. 97	96	97	96	96	98	100	102	98	97	95	92	95	98	99	102	100	98	94	82	83	85	85	86	86								



TOTAL PRECIPITATION FOR AUGUST, 1906





## DAILY PRECIPITATION FOR AUGUST, 1906.

Stations	Day of Month.																															Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Northern Section.																																	
Battle Mountain									T												T												T
Beowawe																																	0.00
Carlin									T							T		T			0.03												0.03
Cover Valley												0.06									T												0.06
Elko									T												0.05												T
Golconda																																	0.00
Halleck																																	T
Humboldt																																	T
Lovelock																																	T
Mill City																																	T
Palisade																																	0.10
Paradise Valley																																	0.20
Quinn River Ranch																																	0.04
San Jacinto																																	0.40
Squaw Valley																																	0.45
Tecoma																																	1.45
Wells																																	0.23
Winnemucca	0.01																																0.45
Eastern Section.																																	
Ely																																3.00	
Hamilton			0.13																														3.21
Central Section.																																	
Austin																																0.97	
Eureka																																0.65	
Potts																																	0.10
Western Section.																																	
Carson City																																0.10	
Carson Dam																																0.10	
Fallon																																	T
Gardnerville																																	0.20
Hazen																																	0.03
Lewers' Ranch																																	0.07
Reno																																	0.15
Wabuska																																	T
Wadsworth																																	T
Southern Section.																																	
Belmont																																	2.21
Columbia																																	1.53
Geyser																																	4.93
Logan																																	0.76
McAfee's Ranch																																	1.30
Mina																																	0.73
Morey																																	3.48
Palmetto																																	3.33
Pioche																																	1.55
Tonopah																																	

T indicates trace. \* Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, -  - ANDREW MAUTE, SUPT.

1906



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U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR SEPTEMBER, 1906.

NEVADA SECTION  
OF THE  
CLIMATOLOGICAL SERVICE  
OF THE  
WEATHER BUREAU

IN COOPERATION WITH THE  
NEVADA STATE WEATHER SERVICE  
(CHARLES W. FRIEND, Director.)

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF  
WILLIS L. MOORE  
CHIEF U. S. WEATHER BUREAU

BY  
H. F. ALPS  
ACTING SECTION DIRECTOR

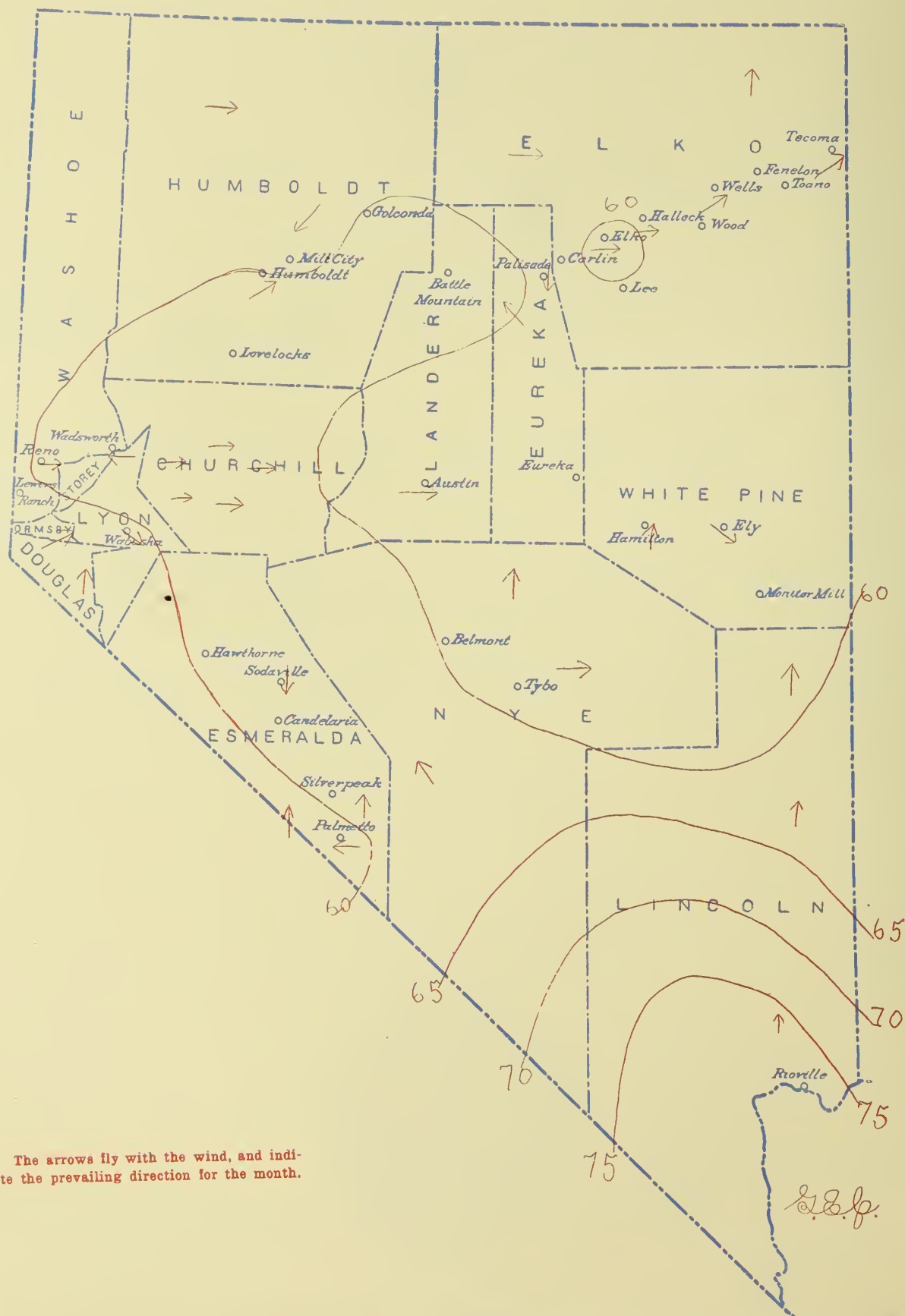


CARSON CITY, NEVADA:

October 25, 1906.



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR SEPTEMBER, 1906.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,

HENRY F. ALPS, Acting Section Director.

VOL. XX. RENO, NEVADA, SEPTEMBER, 1906. No. 9.

## GENERAL SUMMARY.

## Pressure.

The mean pressure for the State, reduced to sea level, was 29.97 inches. The highest during the month was 30.36 inches at Winnemucca, on the 17th, and the lowest was 29.60 inches, at Tonopah, on the 23d.

## Temperature.

The mean temperature for the State was 60.4°, which is 0.3° above the normal for the month, and 0.7° lower than the mean for the corresponding month of 1905. The mean temperature for the northern section was 59.4°; for the eastern section, 55.7°; for the central section, 57.1°; for the western section, 61.7°; and for the southern section, 62.3°. The highest monthly mean temperature was 77.6°, at Logan, Lincoln County. The lowest monthly mean was 52.6°, at Potts, Nye County. The highest temperature was 103°, at Logan, on the 20th. The lowest temperature was 18°, at Squaw Valley, Elko County, on the 11th. The absolute range of temperature for the State was 85°; the greatest daily range was 59°, at Palisade, Eureka County, on the 21st.

During the first nine days of the month the temperature was slightly above the normal, with high day temperatures and moderately low night temperatures. The maximum temperature at the majority of the stations occurred on the 1st, 2d, or 3d. A cool wave overspread the greater portion of the State from the 10th to the 17th, inclusive, and the minimum temperature at thirty stations occurred on the 15th, 16th, or 17th. Warm weather prevailed during the last decade of the month, the temperature being much above the normal on the last three days.

## Precipitation.

The average precipitation for the State was 0.30 inch, which is 0.09 inch below the normal for the month, and 0.21 inch below the average for the corresponding month of 1905. The average precipitation for the northern section was 0.29 inch; for the eastern section, 0.74 inch; for the central section, 0.43 inch; for the western section, 0.27 inch; and for the southern section, 0.23 inch. The greatest monthly amount was 1.12 inches, at Squaw Valley, Elko County. The least monthly amount was none, at five stations. The

greatest amount recorded in twenty-four hours was 0.68 inch, at Squaw Valley, on the 13th. The average number of rainy days was 2.

Showers were general in the central section on the 5th and 6th, western section on the 4th and 6th, while in other sections they were scattered and generally very light. The only period of general rains was from the 12th to the 15th, inclusive, when light to moderate showers fell over the greater part of the State. During the latter half of the month there was no precipitation in the northern section and most of the western and southern sections, while light local showers fell in the eastern and central sections on the 30th. A trace of snow fell at Humboldt on the 14th, Hamilton and Morey on the 14th and 15th, and Palmetto on the 15th.

## Wind.

The prevailing direction of the wind was from the west, although at a number of stations the prevailing direction was from the south. The total movement of the wind at Reno was 3,714 miles; the total movement at Tonopah was 6,901 miles; the total movement at Winnemucca was 3,465 miles; the total movement at Modena, Utah, was 6,489 miles. The maximum velocity at Reno was 28 miles per hour, from the west, on the 23d; the maximum velocity at Tonopah was 48 miles per hour, from the northwest, on the 23d; the maximum velocity at Winnemucca was 37 miles per hour, from the northwest, on the 12th; the maximum velocity at Modena, Utah, was 48 miles per hour, from the north, on the 1st. The average velocity for the State was 6.5 miles per hour.

## Sunshine and Cloudiness.

The average number of clear days was 20, partly cloudy days 6, and cloudy days 4.

## MISCELLANEOUS PHENOMENA.

*Killing Frost*—Austin, 16th; Carson City, 12th; Clover Valley, 11th; Ely, 16th; Eureka, 16th; Geyser, 14th; Golconda, 16th; McAfee's Ranch, 13th; Morey, 15th; Palisade, 17th; Palmetto, 16th; Paradise Valley, 10th; Quinn River Ranch, 11th; San Jacinto, 11th; Stillwater, 19th; Tecoma, 11th.

*Halo, Solar*—Reno, 2d.

*Hail*—Ely, 13th; Geyser, 14th; Hamilton, 1st, 13th; Reno, 4th; Squaw Valley, 13th.

*High Winds*—Austin, 23d, 30th; Columbia, 13th, 14th, 15th, 23d, 24th, 28th; Fallon, 5th; Geyser, 23d; Hazen, 11th, 12th, 13th, 23d; Leetville, 12th; Morey, 23d; Palmetto, 23d, 24th; Potts, 4th, 6th, 7th, 9th, 11th, 23d, 29th; Pioche, 23d; Reno, 5th, 23d; Squaw Valley, 23d; Stillwater, 23d; Tonopah, 23d; Winnemucca, 12th.

*Thunderstorms*—Austin, 15th; Carson City, 4th, 5th; Ely, 1st, 13th; Eureka, 1st, 6th, 30th; Gardnerville, 5th, 6th; Geyser, 1st; Hamilton, 1st, 13th; Hazen, 4th; Logan, 30th; Palmetto, 5th, 6th, 30th; Reno, 4th; Soda Lake, 5th; Squaw Valley, 13th; Tonopah, 5th, 6th, 30th; Wabuska, 4th, 5th, 6th, 7th.



*Earthquake*—Carson City, 9th; Wabuska, 9th.  
*Dense Fog*—Hamilton, 15th.

## COMPARATIVE DATA FOR SEPTEMBER.

Year.	Temperature.			Average precipitation.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1889.....	61.7	110	13	0.55	.....	.....	.....	.....	.....
1890.....	64.2	110	18	0.81	.....	.....	.....	.....	.....
1891.....	58.9	98	5	0.94	.....	.....	.....	.....	SW
1892.....	62.8	109	15	0.09	.....	.....	.....	.....	SE
1893.....	57.5	99	16	0.51	.....	16	7	7	SW
1894.....	58.4	96	10	0.35	.....	.....	.....	.....	W
1895.....	59.9	106	0	0.27	.....	.....	.....	.....	.....
1896.....	58.3	102	15	0.35	.....	.....	.....	.....	.....
1897.....	60.4	105	21	0.16	1	18	7	5	W
1898.....	61.1	97	18	0.20	1	22	4	4	W
1899.....	63.0	98	24	0.05	0	24	3	3	W
1900.....	56.1	99	17	0.30	2	19	5	6	SW
1901.....	56.2	95	20	0.39	2	21	5	4	SW
1902.....	61.7	113	10	0.21	2	19	5	6	SW
1903.....	60.2	114	17	0.18	1	22	5	3	SW
1904.....	60.4	103	19	0.93	4	17	5	8	S
1905.....	61.1	103	19	0.51	1	19	5	6	SW
1906.....	60.2	103	18	0.30	2	20	6	4	W
Means.....	60.1	.....	.....	0.39	.....	.....	.....	.....	.....

## OBSERVERS' REMARKS.

CARSON CITY—A light earthquake occurred at this station at 4:55 a. m. of the 9th. The vibrations were from west to east.  
 C. W. FRIEND.

ELY—Some hail fell with the rain on the 13th.

ALLEN C. BRAGG.

EUREKA—Thin ice was observed on the mornings of the 16th and 17th.

CLAY SIMMS.

FALLON—Light frost was observed on the morning of the 16th, but there was no killing frost during the month.

F. C. SAWIN.

GEYSER—The weather has been pleasant and very favorable during the greater part of the month.

A. D. CAMPBELL.

HALLECK—Snow was observed on the mountains on the mornings of the 13th and 14th.

S. C. RANDALL.

HAMILTON—The first snow of the season fell on the 14th and 15th.

MRS. L. C. MUIR.

LEETVILLE—The weather for the month was very pleasant and favorable.

W. F. BARTZ.

LEWERS' RANCH—September was a very favorable month for ranching, the weather being generally clear.

MRS ROSS LEWERS.

PALMETTO—Snow squalls occurred on the 15th.

WM. OOTHOUT, JR.

STILLWATER—The first and latter part of the month was warm, but the middle part was very cold.

E. J. FREEMAN.

WABUSKA—There were several light, but no killing, frosts

during the month. A light earthquake occurred about 5 a. m. of the 9th.

J. G. YOUNG.

## DELAYED REPORT.

Morey (Nye County) report for August, 1906: Mean temperature, 65.4°; highest, 93°, on the 14th; lowest, 42°, on the 24th; greatest daily range, 41°. Total precipitation, 1.82 inches; greatest precipitation in any twenty-four-hour period, 0.53 inch, on the 18th; number of days with measurable precipitation, 10. Number of clear days, 17; partly cloudy, 7; cloudy, 7.

## NOTES ON MOUNT ROSE.

[From the Monthly Weather Review, June, 1906.]

In a letter of June 7, from Reno, Nevada, Professor J. E. Church, Jr., calls attention to the possibility of using the records on the summit of Mount Rose (altitude 10,800 feet) for predicting the occurrence of frost over the adjacent lowlands, especially the Truckee Meadows and the Carson Sink, which it is proposed to reclaim by means of irrigation. According to the thermograph record a period of low temperature began on the mountain top at noon on Monday, May 14, thirty-six hours before the first appearance of frost, late Tuesday night, on the floor of the adjacent valley. The thermometer on the summit continued to fall during Tuesday and Wednesday; the figures were 12° above zero on Monday, and 7° above zero Wednesday morning, with a corresponding fall in the barometer. Frost first appeared in the valley below Wednesday morning, and continued to Thursday morning. As the area covered by this frost moved eastward over the State it should have been possible to predict it two days in advance by the records from the summit of Mount Rose. It preceded the formation of an area of high pressure that advanced eastward and became central in Idaho on the morning of Thursday, May 17, and it was evidently a typical illustration of air cooling by radiation and settling down under a clear sky while fresh air flowed in above it.

An analogous study of comparative weather conditions, especially temperature, has been made by Professor Barnes at Montreal, Canada. A telethermograph of special construction gives him simultaneous temperatures at the summit and base of Mount Royal, and cold at the base is almost always preceded by low records at the summit. When we have learned why this connection is not invariable we shall probably be able to use mountain records in forecasting the frosts of the lowlands. Every new mountain observatory is a new field of aerial exploration greatly needed and most welcome to the true meteorologist.—C. A.

## ERRATA.

In the August (1906) Report: Elko, mean temperature, 71.8°, should be 73.1°. Pioche, mean temperature, 72.7°, should be 72.8°.



## CLIMATOLOGICAL DATA FOR SEPTEMBER, 1906.

Stations.	Counties.	Elevation (feet)	Length of record (years)	Temperature (degrees Fahrenheit)							Precipitation (inches)						Sk.				Prevailing direction of wind	Observer
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest 10-day	Total snowfall (inches)	Number rainy days	Number clear days	Number partly cloudy days	Number of days				
Northern Section.																						
Battle Mountain	Lander	4,511	36	64.4	+1.6	95	3	38	15	46	0.00	-0.24	0.00	0.0	0	20	6	4		Agent So. Pacific Co.		
Beowawe-3	Eureka	4,695	36			98	3	30	15		0.00		0.00	0.0	0	15	0	15	SE	Agent So. Pacific Co.		
Carlin-3	Elko	4,897	36																	Agent So. Pacific Co.		
Clover Valley†	Elko	6,000	7	57.0		86	19	28	17	50	0.25		0.18	0.0	3	20	7	3		A. H. Wiseman		
Elko-3	Elko	5,063	36	61.8	+4.8	90	1	36	28		0.34	+0.14	0.25	0.0	3	14	0	16	W	Agent So. Pacific Co.		
Golconda	Humboldt	1,392	28	61.0		87	7	30	16	45	0.20	-0.09	0.20	0.0	1	27	0	3	W	Jas. Buckley		
Halleck-3	Elko	5,229	34								0.20	+0.08	0.10	0.0	2	13	13	1	W	Agent So. Pacific Co.		
Humboldt	Humboldt	4,236	35	62.1	+0.3	87	5	35	15	41	T	-0.16	T	T	0	25	3	2	SW	Agent So. Pacific Co.		
Lovelock	Humboldt	3,977	15																	G. S. Webb		
Mill City-3	Humboldt	4,225	18	55.0		86	19	41	21		0.00	-0.20	0.00	0.0	0	12	15	3		Agent So. Pacific Co.		
Palisade	Eureka	1,821	25	58.4	-2.9	94	21	28	17	59	0.30	-0.04	0.16	0.0	3	16	3	11	N	Geo. H. Kenyon		
Quinn River Ranch‡	Humboldt	4,850	5	58.7		89	6	27	16	57	0.58		0.54	0.0	2	20	9	1	W	F. M. Payne		
San Jacinto	Elko		2	57.0		88	6	19	11	56	0.30		0.20	0.0	2	20	7	3	S	W. C. Betteridge, Jr.		
Squaw Valley**-2	Elko	5,100		55.4		88	3	18	11	58	1.12		0.68	0.0	3				W	John Y. Scott		
Tecoma	Elko	4,812	29	58.4	-3.9	89	7	27	11	47	0.69	+0.39	0.63	0.0	3	21	3	6	SW	Agent So. Pacific Co.		
Wells	Elko	5,623	35	56.1		84	2	26	17		0.00		0.00	0.0	0	23	2	5	SW	Phil. S. Triplett		
Winnemucca	Humboldt	4,432	28	59.9	-0.2	88	3	29	16	50	0.44	+0.11	0.36	0.0	3	22	2	6	NE	U. S. Weather Bureau		
Eastern Section.		Means		58.9							0.29			T	2	19	5	6	W			
Ely	White Pine	6,000	17	57.0		87	9	29	18	46	0.73		0.34	0.0	5	23	0	7	NW	Allen C. Bragg		
Hamilton	White Pine	7,977		54.4		81	28	23	17	43	0.76		0.26	T	4	20	5	5	S	Mrs. L. C. Muir		
Central Section.		Means		55.7							0.74			T	4	22	2	6				
Austin	Lander	6,594	18	59.6		81	3	31	16	36	0.60		0.28	0.0	5	20	4	6	W	Dr. W. H. Heinzmann		
Eureka	Eureka	6,500	4	59.2		84	3	27	16	44	0.53		0.22	0.0	5	18	7	5		Clay Simms		
Potts	Nye	6,960	14	52.6	-9.5	87	3	20	16	54	0.15	+0.07	0.10	0.0	2	14	8	8	S	Miss Maude Potts		
Western Section.		Means		57.1							0.43			0.0	4	17	7	6	SW			
Carson City-2	Ormsby	4,660	27	59.0	-0.5	86	2	30	17	49	0.19	-0.09	0.08	0.0	4	26	2	2	SW	C. W. Friend		
Carson Dam	Churchill	4,032		63.9		89	3	38	17	41	0.36		0.14	0.0	4	19	6	5	W	J. M. Heizer		
Fallon	Churchill	3,965	2	62.8		90	3	34	16	49	0.29		0.17	0.0	4	24	5	1	W	F. C. Sawin		
Gardnerville	Douglas	4,830	8	58.6	-0.9	88	1	33	16	46	0.03	-0.25	0.03	0.0	1	13	15	2	S	Lawrence Ezell		
Hazen-2	Churchill	4,050		66.5		96	2	37	16	44	0.38		0.24	0.0	4	16	12	2	W	Geo. A. Ganser		
Leetville	Churchill			65.9		91	3	40	12	46	0.26		0.16	0.0	3	26	3	1		W. F. Bartz		
Lewers' Ranch‡	Washoe	5,500	19	59.3	-1.9	82	21	33	16	40	0.38	-0.43	0.28	0.0	2	23	6	1		Mrs. Ross Lewers		
Reno	Washoe	4,532	36	61.0	+1.0	86	21	35	16	45	0.20	+0.06	0.09	0.0	3	24	5	1	W	U. S. Weather Bureau		
Soda Lake	Churchill			66.3		100	7	39	15	46	0.05		0.05	0.0	1	23	1	6	W	William Willis		
Stillwater	Churchill			58.2		86	1	39	15	52	0.74		0.58	0.0	5				W	E. J. Freeman		
Wabuska	Lyon	4,347	4	58.0		88	4	31	17	49	0.30		0.30	0.0	1	17	12	1	NW	J. G. Young		
Wadsworth	Washoe	4,077	35	61.2	-4.8	85	2	37	14	42	0.02		0.02	0.0	1	22	4	4	E	J. O. Howard		
Southern Section.		Means		61.7							0.27			0.0	3	21	7	2	W			
Belmont	Nye	8,132	15																	W. N. Granger		
Columbia	Esmeralda	5,750		64.4		87	4	33	16	43	0.03		0.03	0.0	1	15	15	0	S	J. M. Kane		
Geyser	Lincoln		2	53.2		84	8	22	17	52	0.60		0.55	0.0	2	23	1	6	S	A. D. Campbell		
Logan	Lincoln	1,700		77.6		103	20	49	16	51	0.34		0.34	0.0	1	21	4	5	S	Chas. Arney		
McAfee's Ranch*	Esmeralda	4,835	3	58.0		85	10	28	18	55	0.00		0.00	0.0	0	24	6	0	S	G. A. McAfee		
Mina	Esmeralda	4,600		64.9		92	1	40	16	47	0.20		0.20	0.0	1	15	9	6	N	T. G. Watterson		
Morey‡	Nye	7,384	3	58.6		83	5	29	15	41	0.17		0.09	T	3	20	6	4	W	C. S. Gibson		
Palmetto a	Esmeralda	6,780	17	56.5	-1.6	80	2	23	16	44	T	-0.50	T	T	0	23	4	3	E	Wm. Oothout, Jr.		
Pioche	Lincoln	6,100	2	64.0		93	6	37	15	49	0.63		0.63	0.0	1	19	2	9	S	A. A. Carman		
Tonopah	Nye	6,000		63.3		80	20	35	15	31	0.08		0.06	0.0	2	22	7	1	SE	U. S. Weather Bureau		
		Means		62.3							0.23			T	1	20	6	4	S			
State Means and Extremes.					60.2	+0.1	103	20	18	11	59	0.30	-0.09	0.68	T	2	20	6	4	W		

REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station, or against the data in the body of the form, indicates the number of days missing from the record: for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

†Postoffice—Wells. ‡Postoffice—Franktown. §Postoffice—Amos. \*Postoffice—Dyer. ‖Postoffice—Eureka. \*\*Postoffice—Golconda.

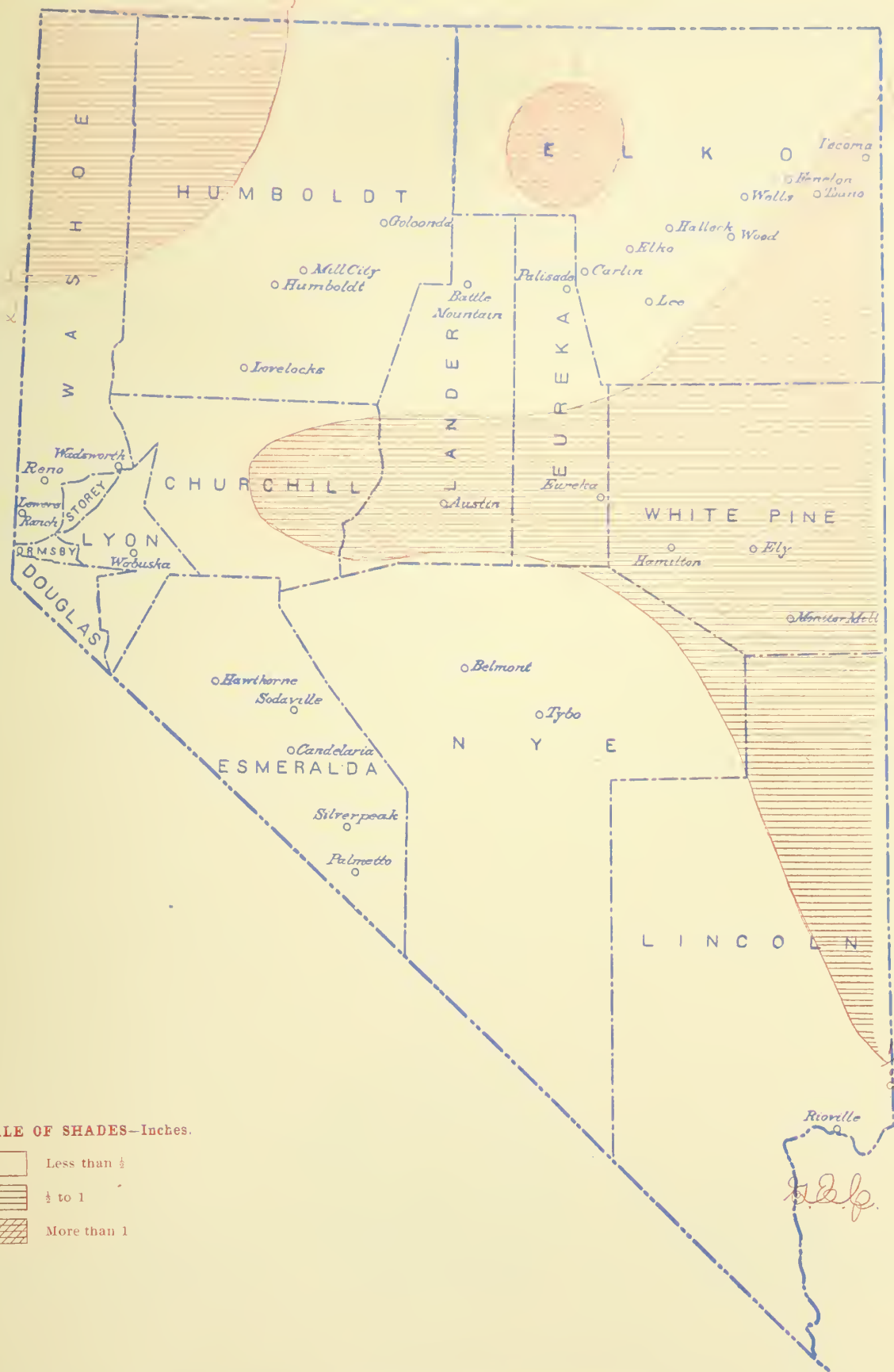


Monthly means.

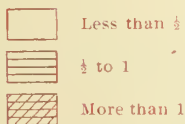
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TOTAL PRECIPITATION FOR SEPTEMBER, 1906



SCALE OF SHADES—Inches.





## DAILY PRECIPITATION FOR SEPTEMBER, 1906.

Stations.	Day of Month.																															Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Section.																																
Battle Mountain																																0.00
Beowawe																																0.00
Carlin													0.18	0.04																		0.25
Clover Valley						0.06	0.03				0.03	0.25																				0.34
Elko													0.20																			0.20
Golconda													0.10	0.10	T																	T
Halleck																																0.00
Humboldt																																0.30
Lovelock																																0.10
Mill City																																0.58
Palisade												0.08	0.01	0.01	0.07																	0.30
Paradise Valley												0.54	0.04																			0.10
Quinn River Ranch												0.20	0.10																			0.58
San Jacinto						T						0.68	0.16	0.28																		0.30
Squaw Valley												0.63			0.02																	1.12
Tecoma						0.04																										0.69
Wells																																0.00
Winnemucca				T								0.30	0.06	0.08	T																	0.44
Eastern Section.																																
Ely	0.34					T							0.10	0.05	0.04																	0.73
Hamilton	0.26												0.25	0.15	0.10															0.20	T	0.76
Central Section.																																
Austin	0.02					0.02	0.11						0.03	0.28	0.16																	0.60
Eureka						0.09							0.15	0.22	T																	0.53
Potts						0.05								T	T																	0.15
Western Section.																																
Carson City						0.08							0.01	0.07	0.03																	0.19
Carson Dam				T		0.06	T						0.03	0.14	0.13																	0.36
Fallon						0.05							0.03	0.17	0.04																	0.29
Gardnerville															0.03																	0.03
Hazen				T		0.03							0.03	0.24	0.08																	0.38
Leetville						T						0.05		0.16	0.05																	0.26
Lewers' Ranch													0.28	0.10																		0.38
Reno				0.05		T						0.06		0.09																		0.20
Soda Lake																																0.05
Stillwater				0.38	0.20							0.04	0.03		0.09																	0.74
Wabuska				T		T								0.30																		0.30
Wadsworth														0.02																		T
Southern Section.																																
Belmont																																0.03
Columbia						0.03																										0.60
Geyser														0.05																		0.34
Logan	0.55	T											T		0.34																	0.00
McAfee's Ranch																																0.20
Mina															0.20	T																T
Morey													0.05																			0.17
Palmetto						T									T																	0.63
Pioche																0.63																0.08
Tonopah	T					T								0.06	T																	0.02

T indicates trace. \* Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, -  - ANDREW MAUTE, SUPT.

1906



U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR OCTOBER, 1906.

NEVADA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

IN COOPERATION WITH THE

NEVADA STATE WEATHER SERVICE

(CHARLES W. FRIEND, Director.)

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

H. F. ALPS,

ACTING SECTION DIRECTOR.

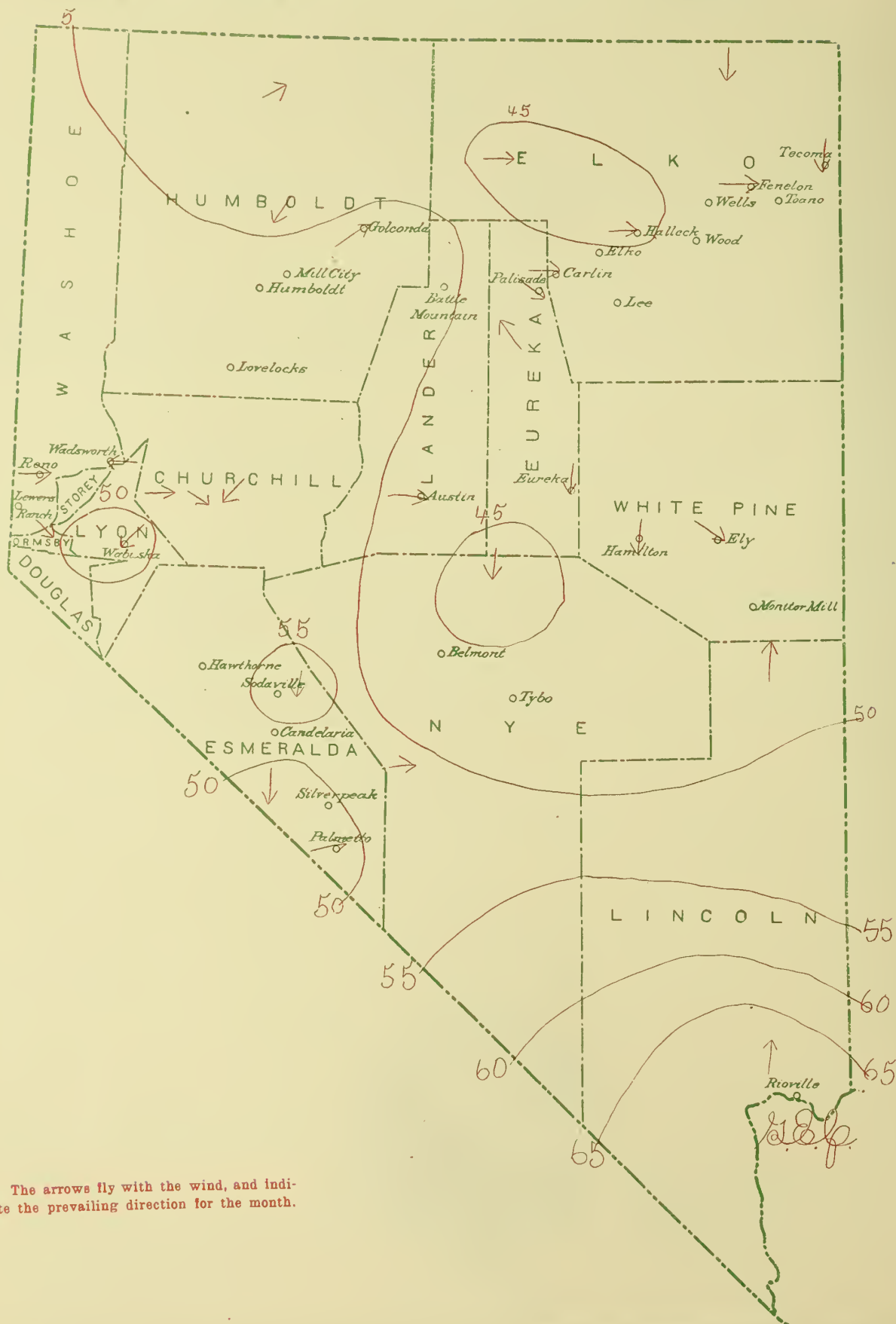


CARSON CITY, NEVADA:

November 26, 1906.



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR OCTOBER, 1906.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**

OF THE  
**WEATHER BUREAU.**  
 CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,  
 HENRY F. ALPS, Acting Section Director.

VOL. XX. RENO, NEVADA, OCTOBER, 1906. No. 10.

**GENERAL SUMMARY.**

**Pressure.**

The mean pressure for the State, reduced to sea level, was 30.10 inches. The highest during the month was 30.45 inches, at Winnemucca, on the 23d, and the lowest was 29.70 inches, at Tonopah, on the 16th.

**Temperature.**

The mean temperature for the State was 49.9°, which is 0.8° above the normal for the month, and 4.1° higher than the mean for the corresponding month of 1905. The mean temperature for the northern section was 47.8°; for the eastern section, 47.0°; for the central section, 47.0°; for the western section, 52.0°; and for the southern section, 53.3°. The highest monthly mean temperature was 67.2°, at Logan, Lincoln County. The lowest monthly mean temperature was 42.4°, at Potts, Nye County. The highest temperature was 100°, at Logan, on the 3d. The lowest temperature was 1°, at McAfee's Ranch, Esmeralda County, on the 22d. The absolute range of temperature for the State was 99°. The greatest daily range was 62°, at McAfee's Ranch, Esmeralda County, on the 15th.

The month opened with high temperatures, and the maxima for the month occurred at the majority of the stations on the 1st, 2d, or 3d. The minimum temperatures for the month occurred at nearly all of the stations on the 22d or 23d.

**Precipitation.**

The average precipitation for the State was 0.10 inch, which is 0.43 inch below the normal for the month, and 0.05 inch above the average for the corresponding month of 1905. This is the lowest average for the past seventeen years, with the exception of October, 1891, when the average was 0.04 inch, and October, 1905, when the average was 0.05 inch. The average precipitation for the northern section was 0.06 inch; for the eastern section, 0.58 inch; for the central section, 0.37 inch; for the western section, 0.01 inch; for the southern section, 0.06 inch. The greatest monthly amount was 1.03 inches, at Hamilton, White Pine County. The least amount was none, at sixteen stations. The greatest amount recorded in twenty-four hours was 0.98 inch, at Hamilton, on the 31st. The average number of rainy days was none.

The first eighteen days of the month were dry, the only precipitation being a trace at Squaw Valley on the 3d, light showers at Palisade from the 13th to the 15th, inclusive, and 0.10 inch at San Jacinto on the 16th. Light snow flurries prevailed at a number of stations on the 19th, 20th, and 21st. The only precipitation of any consequence during the month occurred on the 31st, when good rains fell in the central and eastern counties.

**Wind.**

The prevailing direction of the wind was from the west, although at a number of stations the prevailing direction was from the north. The total movement of the wind at Reno was 3,576 miles; the total movement at Tonopah was 6,260 miles; the total movement at Winnemucca was 4,062 miles; and the total movement at Modena, Utah, was 6,835 miles. The maximum velocity at Reno was 28 miles per hour, from the west, on the 16th; the maximum velocity at Tonopah was 40 miles per hour, from the northwest, on the 3d; the maximum velocity at Winnemucca was 31 miles per hour, from the northwest, on the 3d; the maximum velocity at Modena, Utah, was 37 miles per hour, from the southwest, on the 16th. The average hourly velocity for the State was 6.6 miles per hour.

**Sunshine and Cloudiness.**

The average number of clear days was 21, partly cloudy days 6, and cloudy days 4.

**COMPARATIVE DATA FOR OCTOBER.**

Year.	Temperature.			Average precipita- tion.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation	Clear.	Partly cloudy.	Cloudy.	
1889 .....	52.2	103	—14	1.48	.....	.....	.....	.....	.....
1890 .....	50.5	92	8	0.26	.....	.....	.....	.....	.....
1891 .....	51.2	88	0	0.04	.....	.....	.....	.....	.....
1892 .....	47.5	91	2	0.32	.....	.....	.....	.....	.....
1893 .....	48.7	94	8	0.12	.....	.....	.....	.....	.....
1894 .....	51.7	94	5	0.33	.....	22	4	5	sw
1895 .....	49.9	100	—5	0.26	.....	.....	.....	.....	.....
1896 .....	50.3	94	11	0.24	.....	.....	.....	.....	.....
1897 .....	47.1	95	9	1.71	6	15	7	9	w
1898 .....	45.9	86	7	0.23	2	19	5	7	w
1899 .....	45.5	89	4	0.74	3	15	6	10	w
1900 .....	47.7	82	4	0.80	3	15	7	9	sw
1901 .....	50.7	90	17	1.11	5	16	6	9	sw
1902 .....	50.0	97	.....	0.27	1	20	5	6	s
1903 .....	51.0	90	11	0.29	1	23	4	4	sw
1904 .....	47.8	91	6	1.20	4	17	6	8	n
1905 .....	45.8	96	0	0.05	0	24	4	3	n
1906 .....	49.9	100	1	0.10	0	21	6	4	w
Means .....	49.1	103	—14	0.53	2	19	5	7	sw

**MISCELLANEOUS PHENOMENA.**

*Killing Frost*—Battle Mountain, 1st; Beowawe, 19th; Carlin, 4th; Carson Dam, 4th; Elko, 5th; Fallon, 4th; Fenelon, 4th; Gardnerville, 3d; Hazen, 18th; Humboldt, 18th; Leetville, 4th; Lewers' Ranch, 5th; Mill City, 20th; Mina, 19th;



Pioche, 14th; Reno, 5th; Soda Lake, 16th; Squaw Valley, 2d; Tonopah, 19th; Verdi, 5th; Wabuska, 10th; Wadsworth, 3d, Winnemucca, 20th.

*High Winds*—Austin, 11th, 16th, 17th; Carlin, 18th, 19th, 20th, 21st; Clover Valley, 20th, 21st; Fallon, 20th, 21st; Geyser, 16th, 21st; Halleek, 16th, 19th, 20th, 21st; Hamilton, 17th, 19th; Hazen, 3d, 10th, 17th, 19th; Leetville, 16th; Logan, 4th; Lovelock, 15th, 16th; Palmetto, 3d, 4th, 19th; Potts, 11th, 16th, 21st; Reno, 11th, 16th; Squaw Valley, 3d, 16th, 20th, 21st; Stillwater, 3d, 11th; Tecoma, 20th; Tonopah, 3d; Winnemucca, 3d.

*Halos, Lunar*—Carson City, 24th; Reno, 24th; Tonopah, 30th; Winnemucca, 12th.

*Hail*—Squaw Valley, 3d.

*Haze*—Hazen, 30th, 31st.

#### DELAYED REPORTS.

Lovelock (Humboldt County) report for September, 1906: Mean temperature, 62.6°; highest, 100°, on the 4th; lowest, 29°, on the 16th; greatest daily range, 62°. Total precipitation, trace. Number of clear days, 19; partly cloudy, 10; cloudy, 1.

Wells (Elko County) report for September, 1906: Mean temperature, 55.6°; highest, 87°, on the 6th; lowest, 18°, on the 17th; greatest daily range, 56°. Total precipitation, 0.18 inch; greatest precipitation in any 24-hour period, 0.18 inch, on the 13th; number of days with measurable precipitation, 1. Number of clear days, 21; partly cloudy, 4; cloudy, 5.

#### ERRATA.

In the September (1906) Report: Ely—Mean maximum temperature, 72.3°, should be 72.9°.

#### CYCLONES AND ANTICYCLONES.

[From the Monthly Weather Review, December, 1905.]

On the same side of the equator, whirls of the same kind (cyclones for instance) always turn or rotate around their centers in the same direction. In our Northern Hemisphere the direction of the inward and upward spiral movement of the air circulating around a cyclone is always opposite to the direction of the movement of the hands of a watch or clock as it lies face upward, that is to say, contraclockwise. In the Southern Hemisphere, the whirling movement of cyclones is with the hands of a watch, or clockwise.

Anticyclones, contrary to cyclones in other respects, are also contrary to them in the matter of the direction of whirling. Anticyclones rotate clockwise in the Northern Hemisphere, and counter-clockwise in the Southern Hemisphere. Of course there is a reason for this rule about the direction of whirling, and that is that the direction of the whirl is

given to it by the direction of the whirling of the earth rotating on its axis.

If you have a stationary washbowl with an outlet at the bottom, or even a large round bottle turned upside down, you can make whirlpools for study by filling the bowl or bottle with water, and then when you pull out the stopper the water will start whirling around.

The broad aerial stream that is generally flowing from west to east over the United States apparently carries cyclones and anticyclones along with it very much as the brook or river carries along its whirlpools. It is this succession of "highs" and "lows" with their opposite kinds of weather and wind that brings us our frequent changes from rainy to clear, warm to cold, and south wind to north wind.

The word cyclone belongs to the very large whirls in the atmosphere that I have described. There are other smaller atmospheric whirls that have special names; these are the hurricane, typhoon, tornado and waterspout. I wish especially to make very clear to you the difference between a cyclone and a tornado, because many people use the word cyclone when they mean tornado, and when others use the word cyclone properly they are not understood. The word cyclone was first used about the year 1840 as a name for very large whirling storms, sometimes as much as five hundred miles across, that occur in the Bay of Bengal and the Indian Ocean. Storms like these also occur in the West Indies (south and southeast of the United States), where they were named hurricanes by the Caribbean Indians who inhabited the islands of the West Indies when they were discovered by Europeans, and the name was adopted by the early Spanish and Portuguese navigators and has been used ever since. Storms of the same kind occur in the Philippines and on the Chinese coast, where they have been called typhoons from ancient times.

The name cyclone was invented to describe the whirling character of these large whirlwinds that Englishmen found in India. It was brought home to England by them, and the large whirling masses of air that are carried along from west to east are called cyclones, and now the word cyclone belongs properly to large whirlwinds two or three thousand miles in diameter.

The word tornado is a Spanish word meaning "twister" and is applied to the dangerous whirlwinds that tear down houses and kill people. They are very small compared with the hurricane and cyclone, being generally less than half a mile in diameter and are rarely carried more than forty or fifty miles, and do not last altogether more than an hour or so before they die away and disappear. They take only a few seconds to pass over any given point. Cyclones and hurricanes travel for many days and go thousands of miles and take from a day to three or four days to pass over a place. It is evident, then, that the cyclone and the tornado are two very different things, their similarity being that they are both whirling masses of air. The house cat and the tiger are alike in more respects, but there is no one who would call a cat a tiger, so the tornado should not be called a cyclone.—E. R. M.



## CLIMATOLOGICAL DATA FOR OCTOBER, 1906.

Stations.	Counties.	Elevation (feet)	Length of record (years)	Temperature (degrees Fahrenheit)							Precipitation (inches)					Sky					Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snow (in inches).	Number rainy days.	Number clear days.	Number partly cloudy days.	Number overcast days.	Prevalence of snow.		
Northern Section.																					
Battle Mountain	Lander	4,511	36	51.2	+1.8	78	29	25	2	43	T	-0.50	T		0	20	9	2		Agent So. Pacific Co.	
Beowawe-3	Eureka	4,695	36			80	1	26	23							19	10	2	SE	Agent So. Pacific Co.	
Carlin-3	Elko	4,897	36	46.1	+2.6	80	1	20	22		T				0	19	1	11	W	Agent So. Pacific Co.	
Clover Valley†	Elko	6,000	7	48.0		83	11	11	20	19	0.11		0.11	0.0	1	22	7	2		A. H. Wiseman	
Elko-3	Elko	5,063	36	45.2		85	1	14	23		T		T	T	0	13	0	18		Agent So. Pacific Co.	
Golconda	Humboldt	4,392	28	51.0		83	1	15	21	14	0.00	-0.10	0.00	0.0	0	23	5	3	SW	Jas. Buckley	
Halleck-3	Elko	5,229	34	43.8		82	1	3	23		T		T	T	0	9	19	3	W	Agent So. Pacific Co.	
Humboldt	Humboldt	4,236	35	52.0	+2.2	78	1	20	31	16	0.00	-0.39	0.00	0.0	0	21	4	6		Agent So. Pacific Co.	
Lovelock	Humboldt	3,977	15	50.6	-2.9	86	9	11	25	55										G. S. Webb	
Mill City-3	Humboldt	4,225	18	51.1	-0.6	82	1	26	22											Agent So. Pacific Co.	
Palisade	Eureka	4,821	25	46.0		82	2	8	22	57	0.36		0.14	0.0	4	7	18	6	NW	Geo. H. Kenyon	
Quinn River Ranch‡	Humboldt	4,850	5	47.6		83	1	10	23	55	0.00		0.00	0.0	0	20	10	1	SW	F. M. Payne	
San Jacinto	Elko		2	46.0		82	3	7	23	56	0.10		0.10	0.0	1	24	6	1	N	W. C. Betteridge, Jr.	
Squaw Valley**-2	Elko	5,100		43.8		84	1	3	23	60	T		T	0.0	0	22	6	3	W	John Y. Scott	
Tecoma	Elko	4,812	29	45.5	-1.1	82	2	11	22	53	0.20	-0.20	0.20	T	1	19	6	6	N	Agent So. Pacific Co.	
Wells	Elko	5,623	35																	Phil. S. Triplett	
Winnemucca	Humboldt	4,432	28	49.7	+1.5	83	9	14	22	52	T	-0.43	T	T	0	15	10	6	NE	U. S. Weather Bureau	
Eastern Section.		Means		47.8							0.06			T	0	18	9	4	W		
Ely	White Pine	6,000	17	48.3		78	18	17	23	59	0.12		0.12	T	1	27	0	4	NW	Allen C. Bragg	
Hamilton	White Pine	7,977		45.8		78	15	12	4	56	1.03		0.98		2	27	2	2	N	Mrs. L. C. Muir	
Central Section.		Means		47.0							0.58			T	2	27	1	3	NW		
Austin	Lander	6,594	18	49.8		80	2	20	22	37	0.30		0.30	T	1	21	6	4	W	Dr. W. H. Heinzmann	
Eureka	Eureka	6,500	4	48.9		83	2	13	22	42	0.66		0.65	T	2	22	5	4	N	Clay Simms	
Potts	Nye	6,990	14	42.4	-4.5	76	16	5	23	50	0.15	+0.06	0.15	0.0	1	14	10	7	N	Miss Maude Potts	
Western Section.		Means		47.0							0.37			T	1	19	7	5	N		
Carson City-2	Ormsby	4,660	27	50.2	+0.6	84	9	11	22	52	0.02	-0.38	0.02	0.0	1	24	6	1	NW	C. W. Friend	
Carson Dam	Churchill	4,032		53.1		86	2	20	23	46	T		T	T	0	18	10	3	W	J. M. Heizer	
Fallon	Churchill	3,965	2	52.3		88	2	22	23	50	T		T	T	0	30	0	1	NE	F. C. Sawin	
Gardnerville.	Douglas	4,830	8	50.5		80	2	12	20	54	0.00	-0.40	0.00	0.0	0				S	Lawrence Ezell	
Hazen-2	Churchill	4,050		54.4		90	2	20	21	45	T		T	0.0	0	21	7	3		Geo. A. Ganser	
Leetville	Churchill	4,020		52.8		87	1	22	22	46	0.00		0.00	0.0	0	30	1	0	NW	W. F. Bartz	
Lewers' Ranch‡	Washoe	5,500	19	52.4	+0.6	82	9	21	22	44	0.00	-1.18	0.00	0.0	0	20	11	0		Mrs. Ross Lewers	
Reno	Washoe	4,532	36	51.8	+1.6	82	10	19	22	45	0.08	-0.16	0.08	T	1	26	3	2	W	Central Office	
Soda Lake e	Churchill	4,005		53.0		89	1	23	23	43										William Willis	
Stillwater	Churchill	3,895				79	2	11	24	44	0.00		0.00	0.0	0					E. J. Freeman	
Wabuska	Lyon	4,347	4	48.2		82	2	10	22	49	T		T	0.0	0	27	4	0	NE	J. G. Young	
Wadsworth	Washoe	4,077	35	52.8	+1.4	85	15	21	21	51	0.00		0.00	0.0	0	24	5	2	E	J. O. Howard	
Southern Section.		Means		52.0							0.01			T	0	25	5	1	NW		
Belmont	Nye	8,132	15																	W. N. Granger	
Columbia	Esmeralda	5,750																		J. M. Kane	
Geyser	Lincoln		2	45.4		80	2	5	22	55	0.00		0.00	0.0	0	22	9	0	S	A. D. Campbell	
Logan	Lincoln	1,700		67.2		100	3	34	23	45	0.00		0.00	0.0	0	22	6	3	S	Chas. Arney	
McAfee's Ranch*	Esmeralda	4,835	3	46.3		85	2	1	22	62	0.18		0.18	T	1	23	5	3	N	G. A. McAfee	
Mina	Esmeralda	4,600		57.8		91	6	19	23	40	0.00		0.00	0.0	0	15	2	14	N	T. G. Watterson	
Morey‡	Nye	7,384	3																	C. S. Gibson	
Palmetto	Esmeralda	6,780	17	48.0	0.0	80	1	11	23	56	0.10	-0.40	0.10	T	1	28	1	2	W	Wm. Oothout, Jr.	
Pioche a	Lincoln	6,100	2	54.2		90	3	19	22	49	T		T	T	0	29	3	7		A. A. Carnan	
Tonopah	Nye	6,000		54.0		81	2	18	20	36	0.11		0.11	0.0	1	23	7	1	W	U. S. Weather Bureau	
		Means		53.3							0.06			T	0	22	5	4	W		
State Means and Extremes.				49.9	+0.8	100	3	1	22	62	0.10	-0.43	0.98	T	0	21	6	4	W		
													</								

REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station indicates the number of days missing from the record; for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

† Postoffice—Wells. ‡ Postoffice—Franktown. § Postoffice—Amos. \* Postoffice—Dyer. || Postoffice—Eureka. \*\* Postoffice—Golconda.



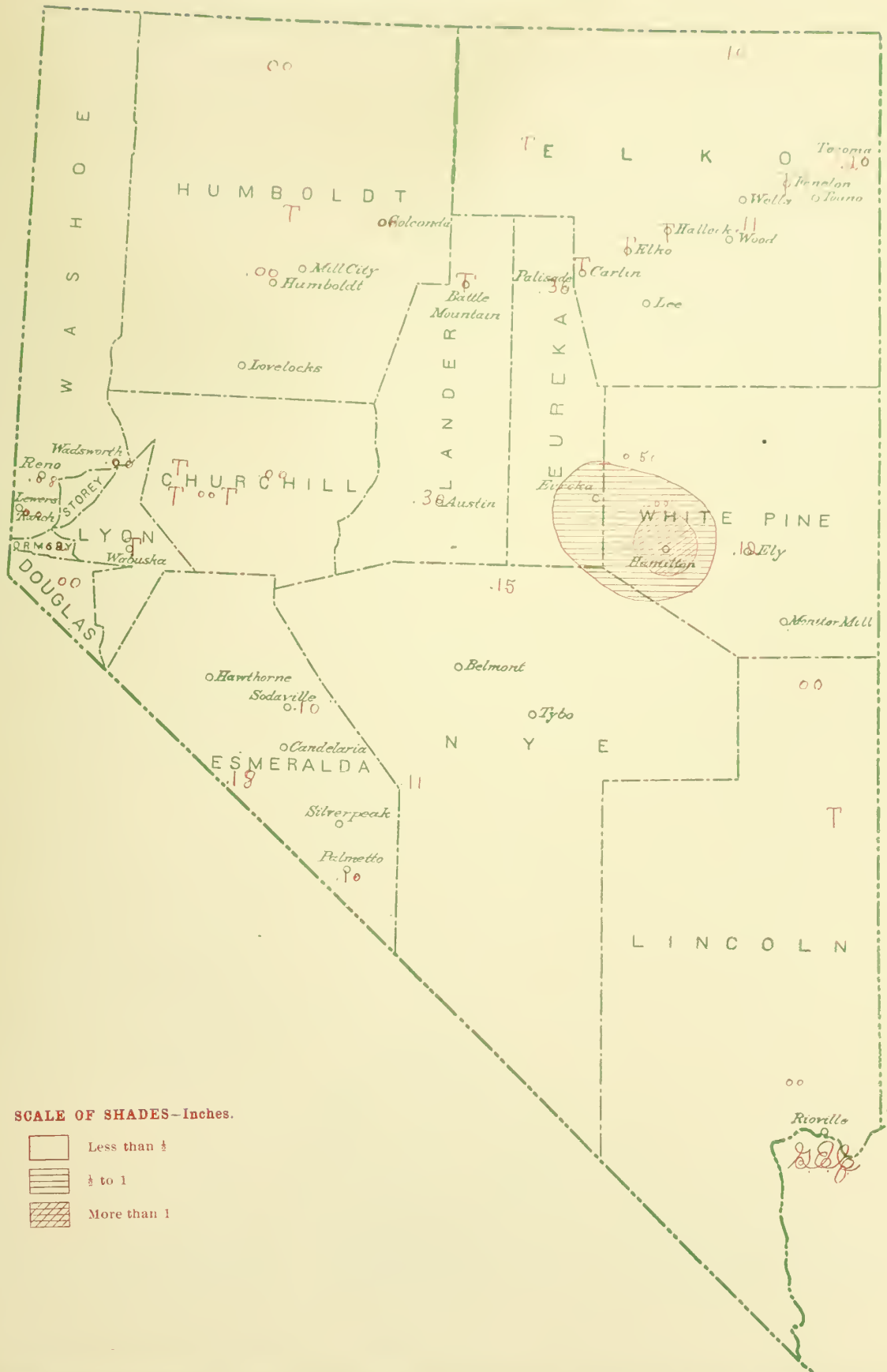
Stations.	Day of Month.																															Monthly means.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Austin.....	Max. 78	80	70	56	63	73	75	76	77	77	46	67	59	71	74	72	52	57	45	31	41	45	53	60	63	65	68	66	65	55	63.8	
Battle Mountain.....	Min. 58	50	65	30	33	36	42	42	43	46	72	38	31	41	43	45	30	27	23	68	68	20	23	27	28	27	32	32	32	38	37	35.9
Carson City.....	Max. 82	82	67	62	63	68	82	82	84	81	67	40	38	37	36	36	65	36	48	35	36	39	60	37	38	38	73	74	72	35	36	35.1
Carson Dam.....	Min. 88	86	43	28	69	78	81	79	81	83	42	47	31	46	46	51	54	25	50	46	48	55	66	69	70	73	77	77	72	70	70.2	
Clover Valley.....	Max. 50	42	39	22	32	37	40	37	33	32	36	41	62	69	68	76	65	53	50	30	32	48	20	21	30	32	33	34	36	47	36.5	
Ely.....	Min. 80	80	76	58	61	71	73	76	76	81	83	41	62	68	68	75	78	78	55	44	33	20	52	59	64	65	66	72	74	57	66.7	
Eureka.....	Max. 73	72	40	27	25	28	32	36	36	32	37	42	62	69	68	76	65	54	53	30	28	48	21	28	31	34	35	36	28	24	29.3	
Fallon.....	Min. 61	60	43	26	26	36	40	40	39	43	78	64	59	71	77	78	62	58	21	19	46	52	16	68	73	71	72	74	77	64	33.4	
Gardnerville.....	Max. 83	83	72	63	70	79	81	79	79	83	84	63	69	75	73	75	76	72	60	55	45	27	68	70	75	78	78	78	75	75	64	72.4
Geyser.....	Min. 79	80	76	60	65	71	72	77	75	78	76	67	65	73	73	75	73	65	60	55	45	18	16	16	21	22	22	22	22	30	30	28.4
Golconda.....	Max. 78	80	30	22	22	25	23	28	27	25	24	22	23	23	20	23	26	18	14	15	52	5	8	8	8	7	7	7	7	7	68	68.3
Hamilton.....	Min. 44	44	68	50	64	67	67	69	70	72	76	74	71	70	72	73	65	60	55	45	20	51	60	64	65	68	69	70	71	62	51	49
Hazen.....	Max. 39	40	35	12	22	31	37	35	32	39	39	67	76	76	73	75	62	58	30	37	34	20	26	30	35	34	33	37	34	50	65	33.3
Humboldt.....	Min. 86	90	57	40	34	35	41	48	46	42	40	33	40	33	44	40	36	36	30	30	55	58	60	60	66	66	68	70	68	64	65	38.9
Leetville.....	Max. 56	48	42	46	46	46	52	44	46	46	46	54	56	58	58	60	58	53	50	34	26	22	22	22	22	22	22	22	22	22	20	70.5
Lewers' Ranch.....	Min. 87	86	82	65	75	80	81	80	83	85	82	82	89	70	77	79	67	62	51	25	20	22	25	30	32	36	35					

### Stations.

[illegible]



TOTAL PRECIPITATION FOR OCTOBER, 1906






## DAILY PRECIPITATION FOR OCTOBER, 1906.

Stations.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
<i>Northern Section.</i>																																	
Battle Mountain																																T	0.00
Beowawe																																T	0.11
Carlin																																T	0.00
Clover Valley																																T	0.00
Elko																																T	0.00
Golconda																																T	0.00
Halleck																																T	0.00
Humboldt																																T	0.00
Lovelock																																T	0.00
Mill City																																T	0.00
Palisade													0.14	0.05	0.05																	0.12	0.36
Paradise Valley																																T	0.00
Quinn River Ranch																																T	0.10
San Jacinto																0.10																T	0.00
Squaw Valley				T															T												T	0.20	
Tecoma																																T	0.00
Wells																																T	0.00
Winnemucca																																T	0.00
<i>Eastern Section.</i>																																	
Ely																																	0.12
Hamilton																				T	0.05											0.98	
<i>Central Section.</i>																																	
Austin																																	0.30
Eureka																				T	0.01											0.65	
Potts																					T											0.15	
<i>Western Section.</i>																																	
Carson City																																	0.02
Carson Dam																																T	0.00
Fallon																																T	0.00
Gardnerville																																T	0.00
Hazen																																T	0.00
Leetville																																T	0.00
Lewers' Ranch																																T	0.00
Reno																																T	0.00
Soda Lake																																T	0.00
Stillwater																																T	0.00
Wabaska																																T	0.00
Wadsworth																																T	0.00
<i>Southern Section.</i>																																	
Belmont																																	0.00
Columbia																																	0.00
Geyser																																	0.00
Logan																																	0.18
McAfee's Ranch																																	0.00
Mina																																	0.10
Morey																																T	0.10
Palmetto																																T	0.10
Pioche																																T	0.11
Tonopah																																	0.00

T indicates trace. \* Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, -  -

ANDREW MAUTE, SUPT.

1906



U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR NOVEMBER, 1906.

NEVADA SECTION  
OF THE  
CLIMATOLOGICAL SERVICE  
OF THE  
WEATHER BUREAU

IN COOPERATION WITH THE  
NEVADA STATE WEATHER SERVICE  
(CHARLES W. FRIEND, Director.)

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF  
WILLIS L. MOORE  
CHIEF U. S. WEATHER BUREAU

BY  
H. F. ALPS,  
ACTING SECTION DIRECTOR.

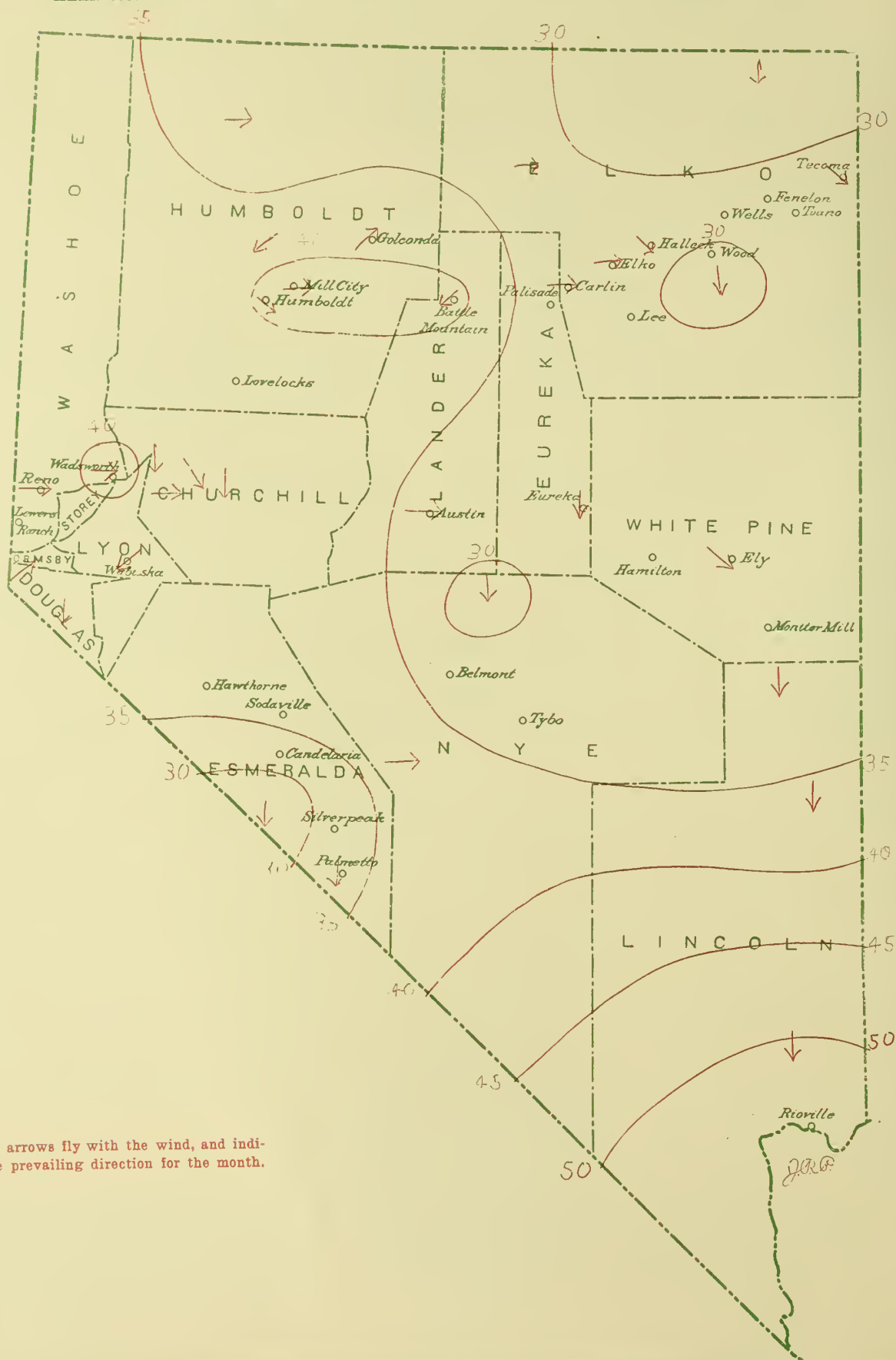


CARSON CITY, NEVADA:

December 24, 1906.



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR NOVEMBER, 1906.



The arrows fly with the wind, and indicate the prevailing direction for the month.



# U. S. DEPARTMENT OF AGRICULTURE, CLIMATOLOGICAL SERVICE

OF THE  
WEATHER BUREAU.  
CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,  
HENRY F. ALPS, Acting Section Director.

VOL. XX. RENO, NEVADA, NOVEMBER, 1906. No. 11.

## GENERAL SUMMARY.

### Pressure.

The mean pressure for the State, reduced to sea level, was 30.14 inches. The highest during the month was 30.46 inches, at Tonopah, on the 25th, and the lowest was 29.59 inches, at Reno, on the 4th.

### Temperature.

The mean temperature for the State was 35.5°, which is 3.9° less than the normal for the month, and 0.9° lower than the mean for the corresponding month of 1905. The mean temperature for the northern section was 34.6°; for the eastern section, 34.4°; for the central section, 31.8°; for the western section, 38.4°; and for the southern section, 35.3°. The highest monthly mean temperature was 50.8°, at Logan, Lincoln County. The lowest monthly mean temperature was 28.0°, at McAfee's Ranch, Esmeralda County. The highest temperature was 83°, at Logan, on the 11th. The lowest temperature was -22°, at Geyser, Lincoln County, on the 29th. The absolute range of temperature for the State was 105°. The greatest daily range was 79°, at San Jacinto, Elko County, on the 19th.

The warmest period of the month was from the 10th to the 15th, inclusive, when the temperature averaged much above the normal, and the maximum was recorded at twenty-seven stations during this time. The latter half of the month was cold, the temperature being several degrees below the normal during the greater part of the time. The minimum temperature at all reporting stations was recorded from the 19th to the 30th.

### Precipitation.

The average precipitation for the State was 0.93 inch, which is 0.14 inch above the normal for the month, and 0.18 inch less than the average for the corresponding month of 1905. The average precipitation for the northern section was 0.62 inch; for the eastern section, 1.02 inches; for the central section, 0.93 inch; for the western section, 0.79 inch; and for the southern section, 1.86 inches. The greatest monthly amount was 5.60 inches, at McAfee's Ranch, Esmeralda County. The least amount was 0.10 inch, at Wabaska, Lyon County. The greatest amount recorded in twenty-four

hours was 2.80 inches, at Lewers' Ranch, Washoe County, on the 4th. The average number of rainy days was 4.

Precipitation occurred at scattered stations during the first six days of the month, being quite general on the 4th. From the 7th to the 14th, inclusive, there was none, excepting a trace at Winnemucca, and 0.06 inch at Quinn River Ranch, on the 10th. Stormy weather prevailed during the latter half of the month.

There was no snowfall at Logan. The amount at other stations varied from 1.0 inch at Gardnerville and Wabaska to 56.0 inches at Palmetto. The average snowfall for the State was 7.7 inches.

### Wind.

The prevailing direction of the wind was from the west. The total movement of the wind at Reno was 3,796 miles; the total movement at Tonopah was 6,895 miles; the total movement at Winnemucca was 5,421 miles; and the total movement at Modena, Utah, was 6,685 miles. The maximum velocity at Reno was 40 miles per hour, from the west, on the 15th; the maximum velocity at Tonopah was 41 miles per hour, from the northwest, on the 17th; the maximum velocity at Winnemucca was 44 miles per hour, from the southwest, on the 15th; the maximum velocity at Modena, Utah, was 41 miles per hour, from the southwest, on the 4th. The average velocity for the State was 8.1 miles per hour.

### Sunshine and Cloudiness.

The average number of clear days was 10, partly cloudy 8, and cloudy days 12.

## COMPARATIVE DATA FOR NOVEMBER.

Year.	Temperature.			Average precipitation.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1889 .....	39.6	81	4	1.08					s
1890 .....	40.9	86	5	0.18					s
1891 .....	41.3	81	-2	0.09	1				N
1892 .....	38.7	76	-13	2.08	4				s
1893 .....	38.2	74	-8	0.83	4				sw
1894 .....	43.7	83	-12	0.08	0	20	9	1	w
1895 .....	35.9	80	-10	0.67	4	11	8	11	N
1896 .....	35.6	79	-23	1.10	4	10	8	12	sw
1897 .....	40.3	77	-6	0.69	3	12	8	10	w
1898 .....	35.1	77	-10	1.10	4	15	6	9	w
1899 .....	40.8	73	3	0.50	3	11	7	12	w
1900 .....	40.7	78	1	1.34	5	13	6	11	sw
1901 .....	43.1	80	12	0.53	2	14	9	7	sw
1902 .....	37.2	82	-3	1.25	5	12	7	11	sw
1903 .....	41.8	89	4	0.67	2	15	8	7	s
1904 .....	41.8	80	2	0.06	0	16	8	6	w
1905 .....	36.4	88	-10	1.11	4	16	5	9	N
1906 .....	35.5	83	-22	0.93	4	10	8	12	N
Means .....	39.2	89	-23	0.79	3	14	7	9	sw

## CLIMATOLOGY OF LEWERS' RANCH.

Lewers' Ranch is located in the southern portion of Washoe County, on the eastern slope of the Sierras, in longitude 119° 48', latitude 39° 16', and elevation 5,500 feet.

The warmest month is August, with a mean temperature of 68.1°, and the coldest month is January, with a mean tem-



perature of 33.8°. The mean annual temperature is 49.4°.

The highest temperature recorded was 100° on August 1, 1898, and July 30, 1901. The lowest temperature recorded was -14° on January 9, 1890, and January 27, 1902.

The year with greatest precipitation was 1904, with 40.46 inches. The greatest monthly precipitation was 18.14 inches, in February, 1904. The average annual precipitation is 25.74 inches.

Monthly and Annual Mean Temperatures.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1890	22.8	30.6	38.5	48.9	57.6	57.6	71.2	70.2	65.2	52.2	42.3	34.7	49.3
1891	32.1	32.9	39.7	48.2	53.6	60.6	68.8	74.0	60.0	55.1	46.6	30.4	50.2
1892	38.6	36.4	41.4	43.4	53.6	56.9	65.4	68.4	63.2	50.8	45.4	31.5	49.6
1893	34.2	31.8	38.5	42.1	51.5	59.6	66.8	68.6	56.6	48.7	42.8	37.8	48.0
1894	32.7	30.4	38.9	48.4	54.4	55.4	67.9	68.4	59.4	53.0	48.7	31.1	49.1
1895	30.2	36.8	39.8	48.2	53.4	60.2	67.0	67.8	57.6	52.8	40.2	34.2	49.0
1896	38.4	39.6	41.2	40.0	48.0	63.8	69.4	66.4	58.5	52.9	41.1	39.8	49.9
1897	33.4	31.2	33.2	41.9	58.2	57.6	65.4	68.6	58.0	48.0	43.8	33.6	47.7
1898	25.8	40.2	35.7	51.4	51.3	60.8	68.0	70.4	62.0	49.2	40.0	30.8	48.8
1899	36.8	36.8	39.0	47.8	47.6	61.2	68.4	60.9	61.4	46.2	44.9	32.2	48.6
1900	39.5	37.6	46.0	42.4	47.6	61.2	70.0	63.8	56.2	49.5	44.1	37.3	49.6
1901	33.5	34.9	41.6	44.6	54.2	60.2	69.6	68.8	58.4	53.4	45.4	38.4	50.2
1902	32.2	41.4	35.4	46.3	52.2	62.3	65.8	67.2	63.5	51.4	39.4	37.2	49.6
1903	37.2	23.4	40.1	44.4	63.2	62.7	67.2	60.7	54.9	45.6	35.8	35.8	50.8
1904	32.8	38.4	40.4	47.6	57.2	61.0	67.2	69.3	61.8	50.3	46.6	36.5	50.8
1905	39.8	37.0	44.4	50.6	51.2	60.5	69.2	69.4	62.4	50.2	40.2	28.6	50.3
Means	33.8	34.3	39.6	46.0	53.1	60.1	67.7	68.1	60.3	51.2	43.6	34.4	49.4

Monthly and Annual Maximum Temperatures.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1890	49	63	66	77	90	90	95	92	86	76	72	62	95
1891	53	51	63	73	73	89	92	94	90	78	72	52	94
1892	54	59	68	68	84	89	89	92	89	82	72	57	92
1893	57	57	70	66	80	83	93	92	86	76	63	61	93
1894	55	60	70	73	81	84	93	96	85	81	73	52	96
1895	58	61	72	77	81	90	92	99	86	79	69	66	99
1896	58	64	68	65	83	89	95	90	84	81	69	64	95
1897	52	55	62	78	85	87	92	98	83	75	71	60	98
1898	54	65	66	81	78	87	98	100	91	75	70	58	100
1899	61	65	69	75	79	91	96	85	90	78	65	63	96
1900	60	66	73	71	80	94	95	91	89	76	70	58	95
1901	54	66	70	70	80	94	100	95	88	78	71	65	100
1902	62	66	63	72	87	90	95	99	95	77	64	63	99
1903	59	52	65	76	90	90	87	94	89	82	71	65	94
1904	60	59	64	81	86	90	92	91	91	79	68	65	92
1905	63	65	71	76	84	85	98	95	91	81	70	49	98

Monthly and Annual Minimum Temperatures.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1890	-14	-4	14	26	30	30	45	46	41	27	22	13	-14
1891	8	5	15	25	33	34	40	41	29	24	21	0	0
1892	15	14	16	21	26	31	42	46	36	19	19	10	10
1893	15	10	12	17	26	34	31	43	31	26	13	16	10
1894	-2	4	9	20	22	26	41	42	27	26	19	8	-2
1895	0	14	11	16	27	31	40	36	21	28	14	5	0
1896	17	15	13	17	20	32	42	40	36	26	4	19	4
1897	11	0	7	22	28	31	30	37	29	24	15	5	0
1898	-2	15	6	20	28	29	38	39	30	23	15	5	-2
1899	5	-6	8	20	16	34	42	33	36	17	24	9	-6
1900	18	11	22	17	31	32	45	38	26	19	19	5	5
1901	-4	0	18	17	31	32	38	39	32	29	25	9	-4
1902	-14	18	10	24	24	29	35	41	29	29	16	13	-14
1903	3	-7	12	18	29	35	35	36	28	27	21	15	-7
1904	0	-7	18	21	28	33	38	43	34	23	22	8	0
1905	15	4	15	20	25	33	40	45	34	22	17	7	4

Monthly and Annual Precipitation.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1890	8.23	3.06	4.39	0.28	1.04	0.00	0.00	1.42	1.28	0.05	0.29	3.55	23.59
1891	0.31	9.30	4.65	1.72	3.04	0.19	0.11	0.47	0.96	0.07	0.72	7.46	29.00
1892	0.60	1.92	2.16	2.04	1.69	1.53	0.03	T	0.26	0.93	9.62	5.51	26.29
1893	4.75	3.67	3.05	1.68	1.22	T	0.01	T	2.22	0.34	3.81	1.91	22.66
1894	5.53	5.39	1.80	0.56	1.86	1.77	0.40	0.09	0.14	2.51	0.36	5.28	25.69
1895	7.92	3.08	1.22	0.98	1.56	0.21	T	0.10	1.95	0.26	0.01	3.07	20.36
1896	10.70	6.30	3.99	3.99	2.83	T	0.58	0.94	0.68	0.68	3.70	2.11	30.50
1897	2.13	5.35	4.34	0.25	0.20	0.55	T	0.43	0.08	4.41	3.66	4.21	25.61
1898	0.86	1.75	1.57	1.18	1.07	0.23	0.01	0.27	0.18	1.41	3.39	2.40	14.32
1899	2.41	0.69	8.51	0.65	1.03	0.06	0.01	1.21	0.00	2.45	3.41	5.46	25.89
1900	0.96	1.13	2.41	4.16	.....	.....	1.25	0.15	0.87	4.06	6.68	2.05	.....
1901	6.33	7.93	1.96	2.20	3.71	0.49	T	0.75	1.38	2.22	3.30	3.97	34.24
1902	1.13	7.19	3.33	1.58	1.00	0.00	0.20	0.28	0.25	1.71	3.90	2.79	23.86
1903	7.40	1.63	4.67	1.08	0.25	T	0.00	0.09	0.10	0.48	7.26	0.31	23.27
1904	2.28	18.14	9.10	0.82	0.15	T	0.32	1.74	3.60	0.68	3.63	40.46	40.46
1905	1.86	4.45	5.45	2.40	2.35	0.10	0.02	0.33	0.60	0.00	1.99	0.88	20.43
Means	3.96	4.69	3.91	1.60	1.53	0.34	0.16	0.43	0.79	1.57	3.30	3.41	25.74

## MISCELLANEOUS PHENOMENA.

*Killing Frost*—Logan, 20th.

*High Winds*—Austin, 2d, 3d, 4th, 15th, 16th, 26th; Carlin, 4th, 15th; Clover Valley, 4th, 15th; Eureka, 15th; Fallon, 4th, 5th, 6th, 7th, 15th; Halleck, 13th, 15th, 18th; Hazen, 15th, 17th, 18th; Geyser, 18th; Leetville, 15th; Lovelock, 14th; Lewers' Ranch, 3d, 4th, 15th; Palmetto, 4th, 13th, 15th, 17th, 22d, 26th; Potts, 2d, 14th; Reno, 3d, 4th, 15th; Squaw Valley, 15th, 18th; Tonopah, 17th; Winnemucca, 15th.

*Halos, Lunar*—Fallon, 29th; Reno, 3d.

*Halos, Solar*—Fallon, 25th, 28th.

*Thunderstorms*—McAfee's Ranch, 21st.

*Sleet*—Hazen, 18th.

*Hail*—Logan, 1st; Pioche, 17th.

*Fog*—Carson Dam, 28th, 29th; Geyser, 6th, 24th; Eureka, 1st, 5th; San Jacinto, 20th, 21st, 22d, 23d, 24th, 25th, 26th.

## OBSERVERS' REMARKS.

CARSON DAM—On the mornings of November 28th and 29th there was dense fog, which froze, causing unusually heavy frost.

J. M. HEIZER.

EUREKA—The 19th was the coldest day that has occurred here in November for a great many years. CLAY SIMMS.

FALLON—Fine weather prevailed during the first half of the month; the latter half was cold, cloudy, and disagreeable.

F. C. SAWIN.

SQUAW VALLEY—The snow is very badly drifted. The latter half of the month was remarkable for high north winds.

JOHN Y. SCOTT.

## ERRATA.

In the October (1906) report: Ely—Mean maximum temperature, 66.4°, should be 65.4°; mean temperature, 48.3°, should be 47.8°. Lovelock—Mean maximum temperature, 71.2°, should be 71.3°. Tecoma—Mean minimum temperature, 26.4°, should be 26.5°; mean temperature, 45.5°, should be 45.6°.



## CLIMATOLOGICAL DATA FOR NOVEMBER, 1906.

Stations.	Counties.	Elevation (feet)	Length of record (years)	Temperature (degrees Fahrenheit)							Precipitation (inches)				Sky					Observers
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.	Prevailing direction of wind.	
Northern Section.																				
Battle Mountain	Lander	4,511	36	43.3	+5.7	71	8	18	27	37	0.50	0.00	0.50	5.0	1	11	10	9	NE	Agent So. Pacific Co.
Beowawe-3	Eureka	4,635	36								0.30	-0.29	0.10	3.0	5	7	2	21	SW	Agent So. Pacific Co.
Carlin-3	Elko	4,897	36	33.4	+0.8	65	14	3	22		0.40		0.30	4.0	2	7	5	18	W	Agent So. Pacific Co.
Clover Valley† h	Elko	6,000	7	28.3		59	3	0	22	39	1.11		0.42	9.1	6	5	16	9	N	A. H. Wiseman
Elko-3	Elko	5,063	36	31.6	-1.6	71	9	-5	30		0.23	-0.23	0.05	2.2	5	7	0	23	W	Agent So. Pacific Co.
Golconda i	Humboldt	4,392	28			69	10	1	26							15	0	15	SW	Jas. Buckley
Halleck-3	Elko	5,229	34	31.8	+1.0	63	4	-13	30		0.45	-0.15	0.20	4.5	1	6	9	15	NW	Agent So. Pacific Co.
Humboldt	Humboldt	4,236	35	41.9	+2.2	65	7	18	25	35	0.90	+0.54	0.40	9.0	3	0	29	1	NW	Agent So. Pacific Co.
Lovelock	Humboldt	3,977	15	36.3	-5.8	75	10	3	29	51	0.22	+0.15	0.12	2.2	2					G. S. Webb
Mill City-3.	Humboldt	4,225	18	41.2	+1.5	66	12	10	19							19	0	11	W	Agent So. Pacific Co.
Palisade	Eureka	4,821	25																	Geo. H. Kenyon
Quinn River Ranch‡	Humboldt	4,850	5	34.9		67	11	-5	19	42	0.63		0.25	3.6	8	12	4	14	W	F. M. Payne
San Jacinto	Elko		2	29.6		67	4	-19	19	79	0.62		0.30	5.4	4	6	13	11	N	W. C. Betteridge, Jr.
Squaw Valley**-2	Elko	5,100		30.9		70	10	-12	19	54	0.69		0.27	8.5	5	14	1	15	W	John Y. Scott
Tecoma	Elko	4,812	29	30.2	-2.5	65	1	-4	19	46	1.32	+1.05	0.60	13.0	4	11	7	12	NW	Agent So. Pacific Co.
Wells	Elko	5,623	35																	Phil. S. Triplett
Winnemucca	Humboldt	4,432	28	35.2	-1.9	70	10	-4	30	49	0.67	-0.22	0.29	8.6	6	11	6	13	NE	U. S. Weather Bureau
Eastern Section.		Means		34.6							0.62			6.01	4	9	7	14	W	
Ely	White Pine	6,000	17	34.4	+1.0	78	9	-3	22	48	1.02	+0.20	0.60	3.2	4	16	0	14	NW	Allen C. Bragg
Hamilton	White Pine	7,977																		Mrs. L. C. Muir
Central Section.		Means		34.4							1.02			3.2	4	16	0	14		
Austin	Lander	6,594	18	33.0	-5.5	66	14	7	29	29	1.41	+0.84	0.35	15.7	6	4	8	18	W	Dr. W. H. Heinzmann
Eureka	Eureka	6,500	4	33.2		67	14	-6	19	36	1.24		0.50	17.5	9	6	9	15	N	Clay Simms
Potts	Nye	6,990	14	29.1	-7.3	68	13	-16	29	41	0.15	-0.26	0.10	3.5	2	5	9	16	N	Miss Maude Potts
Western Section.		Means		31.8							0.93			9.2	6	5	9	16	N	
Carson City-2	Ormsby	4,660	27	38.0	-3.4	79	14	10	30	48	1.14	-0.36	0.81	3.4	7	10	13	7	SW	C. W. Friend
Carson Dam	Churchill	4,032		39.8		73	14	9	27	42	0.34		0.14	2.8	5	13	7	10	W	J. M. Heizer
Fallon	Churchill	3,965	2	37.8		81	14	-1	29	52	0.44		0.22	5.5	4	18	8	4	N	F. C. Sawin
Gardnerville c.	Douglas	4,830	8	35.8		75	14	9	26	49	1.10		1.00	1.0	2				N	Lawrence Ezell
Hazen-2	Churchill	4,050		37.3		72	14	1	30	42	0.44		0.18	6.0	4	8	18	4	N	Geo. A. Ganser
Leetville	Churchill	4,020		38.4		76	15	0	30	42	0.37		0.20	5.2	4	21	8	1	NW	W. F. Bartz
Lewers' Ranch‡	Washoe	5,500	19	39.6	-3.1	79	14	11	19	41	3.11	+0.02	2.80		2	6	15	9		Mrs. Ross Lewers
Reno	Washoe	4,532	36	38.8	-2.7	74	14	13	29	41	0.76	-0.04	0.61	1.6	6	10	12	8	W	Central Office
Soda Lake	Churchill	4,005																		William Willis
Stillwater	Churchill	3,895				76	14	-4	29	50	0.39		0.20	3.0	3					E. J. Freeman
Wabuska	Lyon	4,347	4	35.3		71	13	0	19	48	0.10			1.0	8	10	19	1	NE	J. G. Young
Wadsworth	Washoe	4,077	35	42.7	+2.9	78	10	4	30	49	0.45	+0.11	0.20	2.5	4	11	9	10	W	J. O. Howard
Southern Section.		Means		38.4							0.79			3.2	5	12	12	6	N, W	
Columbia	Esmeralda	5,750																		J. M. Kane
Geyser c.	Lincoln		2	31.0		70	10	-22	29	55	1.28		0.45	10.5	5	9	8	13	N	A. D. Campbell
Logan	Lincoln	1,700		50.8		83	11	22	20	45	0.58		0.36	0.0	2	11	7	12	N	Chas. Arney
McAfee's Ranch*	Esmeralda	4,835	3	28.0		75	13	-20	23	63	1.35		0.40	13.5	5	8	3	19	N	G. A. McAfee
Mina	Esmeralda	4,600																		T. G. Watterson
Morey	Nye	7,384	3																	C. S. Gibson
Palmetto	Esmeralda	6,780	17	30.6	-8.3	73	15	-15	18	47	5.60	+4.88	1.80	56.0	7	13	6	11	N	Wm. Oothout, Jr.
Pioche	Lincoln	6,100	2	35.8		72	14	3	20	42	1.67		0.50	13.0	5	11	2	17	N	A. A. Carman
Tonopah	Nye	6,000		35.6		70	14	6	19	27	0.69		0.39	9.5	3	7	15	8	W	U. S. Weather Bureau
		Means		35.3							1.86			17.1	4	10	7	13	N	
State Means and Extremes.				35.5	-3.7	83	11	-22	29	79	0.93	+0.14		7.7	4	10	8	12	N	
</																				

REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station indicates the number of days missing from the record: for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

† Postoffice—Wells. ‡ Postoffice—Franktown. § Postoffice—Amos. \* Postoffice—Dyer. || Postoffice—Eureka. \*\* Postoffice—Golconda.

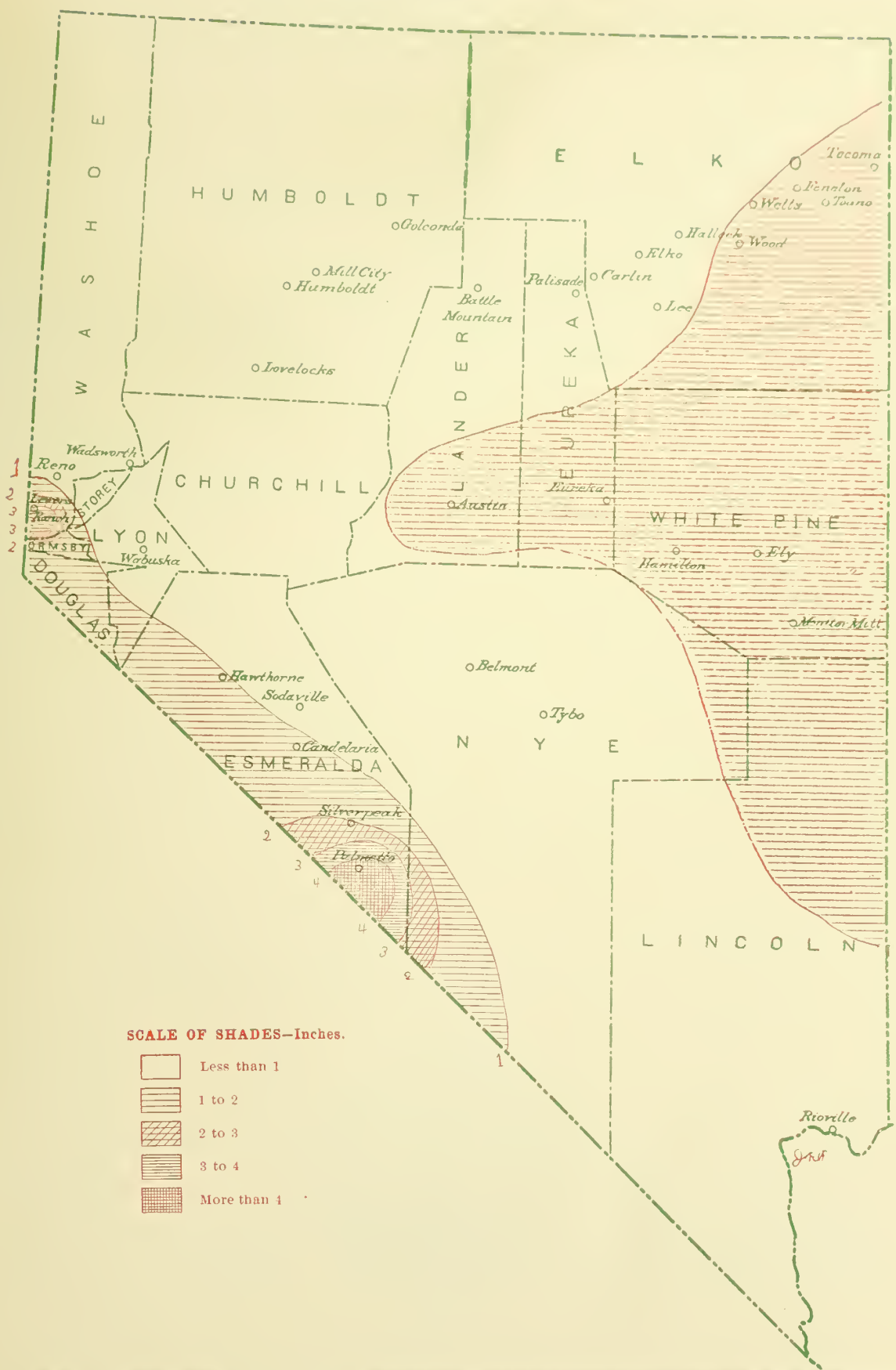


DAILY MAXIMUM AND MINIMUM TEMPERATURES FOR NOVEMBER, 1906.

Stations.	Day of Month.																															Monthly means.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Austin.....	Max. 47	46	55	60	45	48	57	59	61	63	61	61	62	66	55	44	37	27	22	28	29	23	30	25	27	22	31	20	22	21	.....	41.8		
Battle Mountain.....	Min. 32	33	34	33	28	25	31	33	37	37	37	38	44	37	37	28	25	19	12	12	12	11	12	15	12	11	11	9	9	7	8	.....	24.1	
Carson City.....	Max. 68	70	70	66	67	68	69	71	69	68	68	67	67	68	69	69	68	50	47	50	50	53	47	44	40	38	35	39	38	40	.....	57.8		
Carson Dam.....	Min. 31	36	36	34	34	35	36	35	36	35	34	33	34	33	34	33	24	23	24	24	23	23	22	20	19	18	19	19	20	.....	28.8			
Clover Valley.....	Max. 57	55	58	53	53	58	65	65	68	71	67	64	63	63	66	59	48	37	32	31	30	29	26	22	16	16	17	21	30	28	.....	51.4		
Ely.....	Min. 27	26	38	33	29	24	24	24	26	26	28	29	39	31	31	37	50	43	36	38	44	34	35	38	44	34	34	36	30	27	.....	24.7		
Euureka.....	Max. 54	58	64	59	54	54	62	62	64	70	67	67	69	73	68	55	50	43	36	38	44	34	35	38	44	34	34	36	30	27	.....	50.7		
Fallon.....	Min. 33	49	35	42	28	25	25	27	25	28	35	35	46	34	51	37	36	35	26	29	39	27	30	33	35	26	28	15	16	11	.....	36.7		
Gardnerville.....	Max. 59	52	59	56	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	19.9		
Geyser.....	Min. 29	13	31	27	28	18	29	27	28	24	30	28	40	44	31	25	25	46	34	27	34	27	34	34	29	36	32	36	27	24	.....	48.0		
Golconda.....	Max. 34	32	34	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	.....	20.9	
Hamilton.....	Min. 35	24	36	34	32	40	24	26	26	26	29	34	34	34	31	25	21	12	11	0	0	3	7	10	10	11	11	10	10	10	10	.....	45.5	
Hazen.....	Max. 48	45	67	58	47	53	60	64	66	67	64	62	64	67	63	63	66	46	37	37	43	37	36	35	35	35	33	35	31	27	.....	54.3		
Humboldt.....	Min. 32	28	37	32	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	.....	21.3	
Leetville.....	Max. 63	61	66	61	57	61	70	70	75	75	77	76	78	81	68	70	56	46	37	37	43	37	36	35	35	35	35	35	35	35	35	.....	52.5	
Lewers' Ranch.....	Min. 36	35	35	34	32	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	.....	19.1	
Logan.....	Max. 56	50	55	49	51	59	65	65	70	71	70	69	74	79	65	54	49	41	37	49	45	36	37	45	43	43	43	43	43	43	43	.....	46.8	
Lovelock.....	Min. 26	41	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	.....	51.8	
McAfee's Ranch.....	Max. 75	71	76	77	75	73	73	75	77	76	77	83	80	77	67	66	55	50	47	47	47	45	45	45	45	45	45	45	45	45	45	.....	27.3	
Mina.....	Min. 54	52	47	47	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	.....	63.3	
Palmetto.....	Max. 50	50	52	55	56	65	65	68	68	69	65	66	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	.....	38.4	
Palisade.....	Min. 29	30	34	24	14	19	18	19	22	30	21	28	25	35	37	21	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	.....	51.7
Pioche.....	Max. 56	60	60	62	59	58	64	65	67	69	70	66	75	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	.....	20.9
Potts.....	Min. 14	22	31	19	6	8	10	9	9	9	9	7	14	14	22	22	25	15	4	3	3	3	3	3	3	3	3	3	3	3	3	3	.....	49.4
Quinn River Ranch.....	Max. 31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	.....	6.7
Reno.....	Min. 53	55	55	53	55	56	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	.....	45.6	
San Jacinto.....	Max. 28	23	31	37	22	23	18	24	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	.....	15.7
Squaw Valley.....	Min. 52	51	51	58	53	52	60	69	67	67	65	69	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	.....	48.1
Stillwater.....	Max. 51	50	55	54	42	47	55	59	59	61	60	62	60	62	60	62	60	62	60	62	60	62	60	62	60	62	60	62	60	62	60	62	.....	23.6
Tecoma.....	Min. 15	15	35	36	29	14	25	22	22	22	21	23	21	23	21	23	21	23	21	23	21	23	21	23	21	23	21	23	21	23	21	23	.....	15.6
Tonopah.....	Max. 57	52	56	54	52	56	63	63	66	71	68	59	35	38	34	34	26	34	26	34	26	34	26	34	26	34	26	34	26	34	26	34	.....	48.3
Wabaska.....	Min. 25	33	41	35	31	31	58	60	58	60	61	58	57	60	54	55	50	47	60	25	30	35	32	34	32	34	32	34	32	34	32	34	.....	21.5
Wadsworth.....	Max. 58	60	65	67	52	48	50	58	60	64	62	61	58	57	60	54	55	50	47	60	25	30	35	32	34	32	34	32	34	32	34	32	.....	50.1
Winnemucca.....	Min. 18	25	11	17	19	22	64	64	64	64	70	66	54	67	62	56	41	38	36	29	40	43	40	43	40	43	40	43	40	43	40	43	.....	27.4
.....	Max. 53	52	56	57	48	54	24	16	13	10	18	20	18	38	36	74	69	60	39	40	43	40	43	40	43	40	43	40	43	40	43	40	.....	11.5
.....	Min. 27	6	24	46	50	46	45	50	59	55	62	64	73	76	74	69	60	39	40	43	40	43	40	43	40	43	40	43	40	43	40	.....	45.2	
.....	Max. 48	47	49	46	46	46	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	.....	15.2
.....	Min. 65	60	58	61	60	52	57	60	65	62	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	.....	42.7
.....	Max. 21	16	20	25	21	23	11	16	25	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	.....	28.5
.....	Min. 48	48	53	54	49	52	40	45	44	46	43	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	.....	52.2
.....	Max. 64	60	64	62	55	62	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	.....	63.0
.....	Min. 28	28	28	28	28	28	18	17	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	.....	22.4
.....	Max. 72	74	74	70	60	65	69	73	75	78	72	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	.....	48.5
.....	Min. 30	29	31	34	30	32	31	36	35	35	35	35	35	35	35																			



# TOTAL PRECIPITATION FOR NOVEMBER, 1906





## DAILY PRECIPITATION FOR NOVEMBER, 1906.

Stations.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Northern Section.																																	
Battle Mountain																						0.50					0.05					0.50	
Beowawe																					0.05						0.05						
Carlin																					0.30	0.10											
Clover Valley			T	0.18											0.28	0.42					0.08							0.05					
Elko															0.01	0.05				0.05								0.10					
Golconda																																	
Halleck				T																								0.10					
Humboldt																												0.30					
Lovelock																												0.12					
Mill City																																	
Palisade																																	
Paradise Valley															0.13					0.08													
Quinn River Ranch										0.06								0.02	0.10		0.25	0.06											
San Jacinto																		0.10		T													
Squaw Valley																				0.12	0.10												
Tecoma																				T													
Wells															0.02	0.10																	
Winnemucca																																	

T indicates trace. \* Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, -  - ANDREW MAUTE, SUPT.

1906



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U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR DECEMBER, 1906.

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NEVADA SECTION  
OF THE  
CLIMATOLOGICAL SERVICE  
OF THE  
WEATHER BUREAU

IN COOPERATION WITH THE  
NEVADA STATE WEATHER SERVICE  
(CHARLES W. FRIEND, Director.)

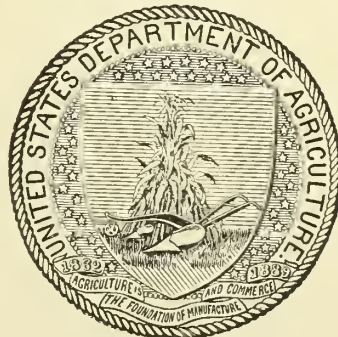
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UNDER DIRECTION OF  
WILLIS L. MOORE  
CHIEF U. S. WEATHER BUREAU

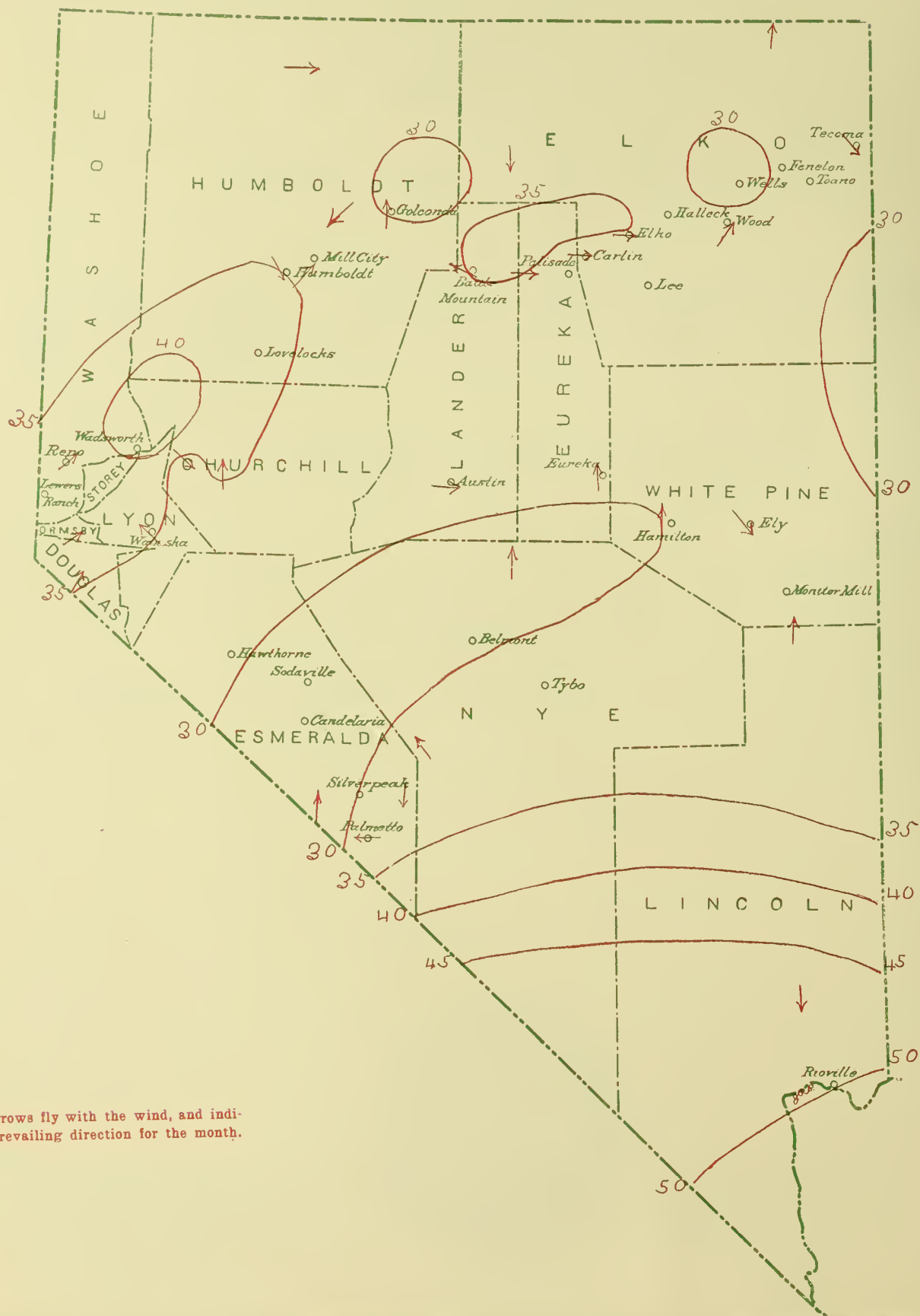
BY  
HARRY O. GEREN  
SECTION DIRECTOR



CARSON CITY, NEVADA:  
March 4, 1907



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR DECEMBER, 1906.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## NEVADA SECTION.

HARRY O. GEREN, Section Director.

VOL. XX. RENO, NEVADA, DECEMBER, 1906. No. 12.

## GENERAL SUMMARY.

## Pressure.

The mean pressure for the State, reduced to sea level, was 30.14 inches. The highest during the month was 30.47 inches, at Tonopah, on the 6th, and the lowest was 29.47 inches, at Tonopah, on the 31st.

## Temperature.

The mean temperature of the State was 33.5°, which is 2.8° higher than the normal for the month, and 11.0° higher than the mean for the corresponding month of 1905. The mean temperature for the northern section was 32.7°; for the eastern section, 32.9°; for the central section, 31.5°; for the western section, 35.7°; and for the southern section, 33.4°. The highest monthly mean temperature was 47.2°, at Logan, Lincoln County. The lowest monthly mean temperature was 25.3°, at Wells, Elko County. The highest temperature was 74°, at Wadsworth, on the 26th. The lowest temperature was -21°, at McAfee's Ranch, Esmeralda County, on the 6th. The absolute range of temperature for the State was 95°. The greatest daily range was 52°, at Squaw Valley, Elko County, on the 21st.

The warmest period of the month was from the 10th to the 26th, inclusive, when the temperature averaged much above the normal, and the maximum was recorded at twenty-eight stations during this time. The first six days of the month were cold, also the last five days; the temperature being several degrees below the normal during the greater part of this time, and in eight stations below zero. The minimum temperature of sixteen stations was recorded on the 1st.

## Precipitation.

The average precipitation for the State was 1.81 inches, which is 0.83 inches above the normal for the month, and 1.31 inches greater than the average for the corresponding month of 1905. The average precipitation for the northern section was 0.92 inch; for the eastern section, 2.80 inches; for the central section, 2.22 inches; for the western section, 2.55 inches; and for the southern section, 2.42 inches. The greatest monthly amount was 7.90 inches, at Lewers' Ranch, Washoe County. The least amount was 0.22 inch, at

Tecoma, Elko County. The greatest amount recorded in twenty-four hours was 3.95 inches, at Lewers' Ranch, Washoe County, on the 12th. The average number of rainy days was 6.

Nearly all the precipitation occurred from the 3d to the 11th, and from the 25th to the 31st, inclusive. The maximum occurred on the 4th, thirty stations reporting precipitation. No precipitation was reported occurring on the 6th, 17th, 19th, and 22d.

There was no snowfall at Logan. The amount at other stations varied from a trace, at Wabuska, to 53.0 inches, at Palmetto. The average snowfall for the State was 12.7 inches.

## Wind.

The prevailing direction of the wind was from the south. The total movement of the wind at Reno was 3,103 miles; the total movement at Tonopah was 7,688 miles; the total movement at Winnemucca was 4,817 miles; the total movement at Modena, Utah, was 5,382 miles. The maximum velocity at Reno was 40 miles per hour, from the south, on the 10th; the maximum velocity at Tonopah was 42 miles per hour, from the southeast, on the 10th; the maximum velocity at Winnemucca was 34 miles per hour, from the southwest, on the 10th; the maximum velocity at Modena, Utah, was 35 miles per hour, from the west, on the 12th. The average velocity for the State was 7.0 miles per hour.

## Sunshine and Cloudiness.

The average number of clear days was 8, partly cloudy 11, and cloudy days 13.

## COMPARATIVE DATA FOR DECEMBER.

Year.	Temperature.			Average precipita- tion.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1889	34.4	70	—20	4.09					
1890	35.1	73	—33	1.00					SW
1891	26.3	66	0	2.75	6				N
1892	30.4	63	—23	1.23	5				S
1893	34.3	72	—15	0.69	3				S
1894	27.6	83	—12	2.50	5				SW
1895	28.0	78	—34	0.42	4	12	9	10	N
1896	34.6	73	—10	0.40	2	14	9	8	S
1897	29.1	69	—14	0.31	4	13	7	11	W
1898	25.3	70	—15	0.48	3	16	7	8	N
1899	28.4	68	—25	1.15	4	14	7	10	NE
1900	33.1	71	—12	0.19	1	14	6	11	SW
1901	32.5	78	—19	0.69	3	17	7	7	SW
1902	33.7	78	—2	0.35	2	13	7	11	SW
1903	30.4	71	—9	0.14	1	20	6	5	N
1904	33.3	76	—23	0.51	1	15	9	7	N
1905	22.5	68	—21	0.60	3	15	7	9	SW
1906	33.5	74	—21	1.91	6	8	10	13	S
Means	30.7	83	—33	1.08	3	14	8	9	SW

## MISCELLANEOUS PHENOMENA.

Fog—Carson City, 5th, 29th; Carson Dam, 5th, 16th;



Eureka, 28th; Fallon, 3d, 5th; Gardnerville, 16th; Hazen, 16th, 17th; Palmetto, 10th, 26th, 30th; Reno, 5th, 16th, 24th; Wabuska, 5th, 6th, 17th; Winnemucca, 4th, 5th, 6th, 7th, 24th, 29th.

*Hail*—Ely, 12th; Fallon, 12th.

*Halos, Lunar*—Carson Dam, 29th; Eureka, 23d, 24th; Tonopah, 24th; Winnemucca, 21st, 26th.

*High Winds*—Austin, 10th, 11th, 12th; Carson Dam, 10th; Clover Valley, 12th; Columbia, 11th, 26th, 30th, 31st; Eureka, 10th, 11th; Halleck, 4th, 12th; Hamilton, 10th, 11th, 12th, 13th, 14th, 31st; Hazen, 30th; Leetville, 29th; Palmetto, 10th, 11th; Potts, 8th, 9th, 10th, 11th, 25th; Reno, 8th, 9th, 10th, 31st; Tonopah, 10th; Wabuska, 10th, 11th; Winnemucca, 10th.

*Sleet*—Hazen, 4th; McAfee's Ranch, 31st; Palmetto, 12th, 26th; Squaw Valley, 8th; Tonopah, 27th.

*Thunderstorms*—McAfee's Ranch, 23d, 24th.

#### OBSERVERS' REMARKS.

COLUMBIA—Notably high winds during latter part of the month.  
W. W. THOMPSON.

ELY—This month was cold, windy, and disagreeable.  
ALLEN C. BRAGG.

GARDNERVILLE—There was considerable wind the first part of the month. The last half was stormy, but very little wind.  
LAWRENCE EZELL.

GEYSER—This has been rather a disagreeable month, and ended with a severe storm. It is not very cold.  
A. D. CAMPBELL.

MCAFFEE'S RANCH—Heavy thunder was heard in the mountains on the 23d and 24th. The month ended with a great blizzard.  
W. F. CARTER.

WABUSKA—The beginning of the month was very cold; the latter part was stormy. More rain and snow fell than usual for December.  
J. S. YOUNG.

#### DELAYED REPORT.

Wells (Elko County) report for November, 1906: Mean temperature, 28.5°; maximum, 62°, on the 6th, 8th, and 10th; minimum, -14°, on the 18th; greatest daily range, 53°. Total precipitation, 0.40 inch; greatest in twenty-four consecutive hours, 0.20 inch, on the 17th and 25th; total snowfall, 4.0 inches; number of days with .01 inch or more of precipitation, 2; number of clear days, 12; partly cloudy, 0; cloudy, 18. The prevailing direction of the wind was from the southwest.

#### SNOWFALL IN THE MOUNTAINS.

Reports received from observers indicate that the snowfall

during November and December was much greater than last year, especially in the mountains. In December, 1904, the snowfall was below the average. In 1905 the snowfall was above the average. Precipitation for December, 1906, throughout the Section was three times greater than for the same period last year. Most of this came in the form of snow; falling mostly from the 3d to the 13th, and from the 25th to the end of the month. The month closed with a heavy fall of snow in many parts of the Section. The average temperature for the month was above the normal, but opened and closed below the normal, leaving much unmelted snow on the ground at the end of the month. Heavy snowfall in the mountains of the upper Truckee River Drainage began a month earlier than usual, causing wood-cutters to seek the valleys, leaving much of their work unfinished.

In the drainage area of the Humboldt River the snowfall was reported to be about the average, only two stations reporting less. The amount in the drainage area of the Upper Truckee River was far greater than the average, badly drifted and well packed. The drainage areas of the Carson, Walker, and Reese Rivers show a marked increase in snow depths over the same month last year.

Indications are that the water-flow this season will be as great, if not greater, than a year ago.

TABLE OF SNOWFALL.

Station.	County.	Compared with average.	On Ground December 31st.	
			At station.	At or near summit of mountains.
			Inches.	Inches.
<i>Humboldt River Drainage:</i>				
Beowawe .....	Lander .....	Average	1	.....
Carlin .....	Elko .....	Less	0	.....
Charleston .....	Elko .....	Average	12	12
Clover Valley .....	Elko .....	Average	2	36
Halleck .....	Elko .....	Average	2	.....
Lamoille .....	Elko .....	Average	8	.....
Paradise Valley .....	Humboldt .....	Less	0	.....
Rebel Creek .....	Humboldt .....	More	4	24
Tuscarora .....	Elko .....	Average	6	18
Wells .....	Elko .....	Average	0	.....
Winnemucca .....	Humboldt .....	More	1½	12 to 60
<i>Truckee River Drainage:</i>				
Boca, Cal. ....	Nevada .....	More	26	.....
Donner, Cal. ....	Nevada .....	More	21	.....
Floriston, Cal. ....	Nevada .....	Average	20	.....
Glenbrook .....	Douglas .....	More	30	48
Hobart Mills, Cal. ....	Nevada .....	More	29	60
Mammoth .....	Washoe .....	More	36	60
Tahoe, Cal. ....	Placer .....	More	48	72
Truckee, Cal. ....	Nevada .....	More	42	108
Wadsworth .....	Washoe .....	More	2	.....
<i>Carson River Drainage:</i>				
Carson City .....	Ormsby .....	More	4	.....
Dayton .....	Lyon .....	Less	0	18
Markleeville, Cal. ....	Alpine .....	More	30	84
Woodfords, Cal. ....	Alpine .....	More	4	60
<i>Walker River Drainage:</i>				
Bodie, Cal. ....	Mono .....	More	12	.....
Bridgeport, Cal. ....	Mono .....	Average	12	240
Mason Valley .....	Lyon .....	More	0	18
Pinegrove .....	Esmeralda .....	More	24	36
Schurz .....	Esmeralda .....	More	1	48
Smith .....	Lyon .....	Average	10	36 to 48
Sweetwater .....	Esmeralda .....	More	10	24 to 36
Topaz, Cal. ....	Mono .....	More	12	24 to 36
<i>Reese River Drainage:</i>				
Austin .....	Lander .....	More	9	24
Berlin .....	Nye .....	More	3	36
Eureka .....	Eureka .....	More	12	24 to 36
Galena .....	Lander .....	Average	8	12 to 24



## CLIMATOLOGICAL DATA FOR DECEMBER, 1906

Stations.	Counties.	Elevation (feet)	Length of record (years)	Temperature (degrees Fahrenheit)							Precipitation (inches)											Observer.
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Days of frost	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	
Northern Section.																						
Battle Mountain	Lander	4,511	36	35.0	+4.8	49	21	23	1	25							1	30	0	81	Agent So. Pacific Co. Agent So. Pacific Co. Agent So. Pacific Co. A. H. Wiseman Agent So. Pacific Co.	
Beowawe-3	Eureka	4,035	36	31.5		56	18	14	1	26	0.30		0.15	3.0	3	12	8	11	W			
Carlin-3	Elko	4,897	36	32.6	+8.0	52	11	2	1	20	0.10		0.20	1.0	2	3	19	9	W			
Clover Valley†	Elko	6,000	7	33.1		58	20	0	1	34	0.63		0.25	0.7	5	5	18	8	SW			
Elko-3	Elko	5,063	36	34.7	+8.1	58	3	8	2	47	0.40	0.86	0.25	1.5	1	3	0	28	W			
Golconda	Humboldt	4,392	28	20.6		56	25	0	3	36						14	0	17	S	Jas. Buckley Agent So. Pacific Co. Agent So. Pacific Co. G. S. Webb Agent So. Pacific Co.		
Hallock-3	Elko	5,229	34	30.6		48	8	4	15	37	0.35		0.10	1.5	4	2	18	11				
Humboldt	Humboldt	4,236	35	31.7	+6.6	52	1	16	31	28	1.20	+0.61	0.60	9.0	1	1	2	28	NW			
Lovelock	Humboldt	3,977	15																			
Mill City-3	Humboldt	4,225	18	38.6	+7.9	60	15	31	16	24	1.18	-0.85	0.40	11.0	7	1	17	13	SW			
Palisade	Eureka	4,821	25																	Geo. H. Kenyon F. M. Payne Moses Jones James Cooper Agent So. Pacific Co.		
Quinn River Ranch‡	Humboldt	4,850	5	34.2		58	26	3	2	39	1.62		0.55	33.0	13	7	4	20	W			
San Jacinto	Elko		2	31.8		51	11	-2	15	45	0.95		0.75	11.0	3	7	16	8	S			
Squaw Valley**-2	Elko	5,100		30.6		62	21	-11	1	52	2.28		1.00	18.0	5	7	6	18	N			
Tecoma	Elko	4,812	29	31.2		50	20	-4	1	36	0.22	-2.01	0.20	2.0	2	2	13	16	NW			
Wells	Elko	5,623	35	25.3	-0.1	38	4	10	18	27	1.20	-0.13	0.80	12.0	2					Agent So. Pacific Co. U. S. Weather Bureau		
Winnemucca	Humboldt	4,432	28	34.1	+3.1	55	26	-2	2	37	1.25	+0.18	0.46	11.7	10	6	8	17	NE			
Eastern Section.		Means		32.7	-4.0						0.92	+0.01		9.5	5	5	11	15	W			
Ely	White Pine	6,000	17	35.4	+8.7	59	21	3	17	43	1.00	-0.04	0.60	8.0	4	10	0	21	NW	Allen C. Bragg Mrs. L. C. Muir		
Hamilton	White Pine	7,977		30.4		60	23	3	31	35	4.60		0.60	46.0	19	11	13	7	S			
Central Section.		Means		32.9							2.80			27.0	12	10	7	14	NW			
Austin	Lander	6,594	18	33.2	+3.2	52	21	8	1	26	1.83	+0.20	0.74	15.0	6	10	8	13	W	Dr. W. H. Heinzmann Clay Simms Miss Mamie Potts		
Eureka	Eureka	6,500	4	32.6		54	21	1	1	36	4.48		0.90	18.5	9	5	11	15	S			
Potts	Nye	6,990	14	28.7	+3.1	49	22	-4	1	36	0.34	-0.28	0.15	2.6	5	2	11	18	S			
Western Section.		Means		31.5	+3.4						2.22	+1.22		12.0	7	6	10	15	S			
Carson City-2	Ormsby	4,660	27	35.1	+2.8	56	22	5	6	37	4.24	+1.68	1.09	18.3	12	8	9	14	SW	C. W. Friend J. M. Heizer F. C. Sawin Lawrence Ezell P. H. Moulton		
Carson Dam	Churchill	4,032		35.4		56	10	10	1	27	0.94		0.48	6.7	5	6	4	21	E			
Fallon	Churchill	3,965	2	35.9		59	27	-2	1	37	1.56		0.50	5.4	6	12	4	15	S			
Gardnerville	Douglas	4,830	8	34.5		58	21	5	5	37	4.55		1.40	15.0	5	9	15	7	SW			
Hazen-2	Churchill	4,050		36.3		60	30	2	1	27	1.24		0.64	6.3	6	3	8	20	NW			
Leetville	Churchill	4,020		33.0		58	21	0	1	30	0.70		0.20	7.5	5	24	4	3	NW	W. F. Bartz Mrs. Ross Lewers Central Office William Willis E. J. Freeman		
Lewers' Ranch‡	Washoe	5,500	19	35.8	+1.4	56	25	10	1	30	7.90	+3.49	3.05	27.0	6	8	12	11				
Reno	Washoe	4,532	36	36.1	+2.7	62	7	11	2	31	2.43	+1.41	1.23	13.4	13	8	10	13	SW			
Soda Lake	Churchill	4,005																				
Stillwater	Churchill	3,895																				
Wabuska	Lyon	4,347	4	35.1		62	11	-1	2	35	1.12		0.70	T	4	5	22	4	SE	J. G. Young J. O. Howard		
Wadsworth	Washoe	4,077	35	40.2	+6.0	74	26	4	1	46	0.80		0.60	8.0	2	19	4	8	E			
Southern Section.		Means		35.7	+1.8						2.55	+0.89		11.0	6	10	9	12	SW			
Columbia	Esmeralda	5,750		33.1		54	24	7	7	35	0.50		0.90	21.0	1	10	13	8	N	W. W. Thompson A. D. Campbell Chas. Arney G. A. McAfee		
Geyser c.	Lincoln		2	30.8		55	24	4	16	40	2.16		0.71	8.0	7				S			
Logan	Lincoln	1,700		47.2		67	21	25	16	37	1.13		0.45	0.0	6	10	11	10	N			
McAfee's Ranch*	Esmeralda	4,835	3	25.9		55	23	-21	6	43	1.38		0.40	12.0	5	13	3	15	S			
Mina	Esmeralda	4,600																		T. G. Watterson C. S. Gibson Wm. Oothout, Jr. A. A. Carman U. S. Weather Bureau		
Morey‡	Nye	7,384	3																			
Palmetto	Esmeralda	6,780	17	31.2	-0.7	59	31	-3	2	42	7.31	+5.84	2.10	53.0	11	11	5	15	E			
Pioche	Lincoln	6,100	2	31.9		52	22	8	15	29	2.61		0.55	15.5	9	11	1	19				
Tonopah	Nye	6,000		33.5	+2.5	51	21	12	1	16	1.83	+0.50	0.58	12.0	9	9	11	11	SE			
State Means and Extremes.				33.5	+2.8	74	26	-21	6	52	1.91	+0.83		12.7	6	8	10	13	S			

REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station indicates the number of days missing from the record: for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

‡Postoffice—Wells. †Postoffice—Franktown. ‡Postoffice—Amos. \*Postoffice—Dyer. †Postoffice—Eureka. \*\*Postoffice—Golconda.

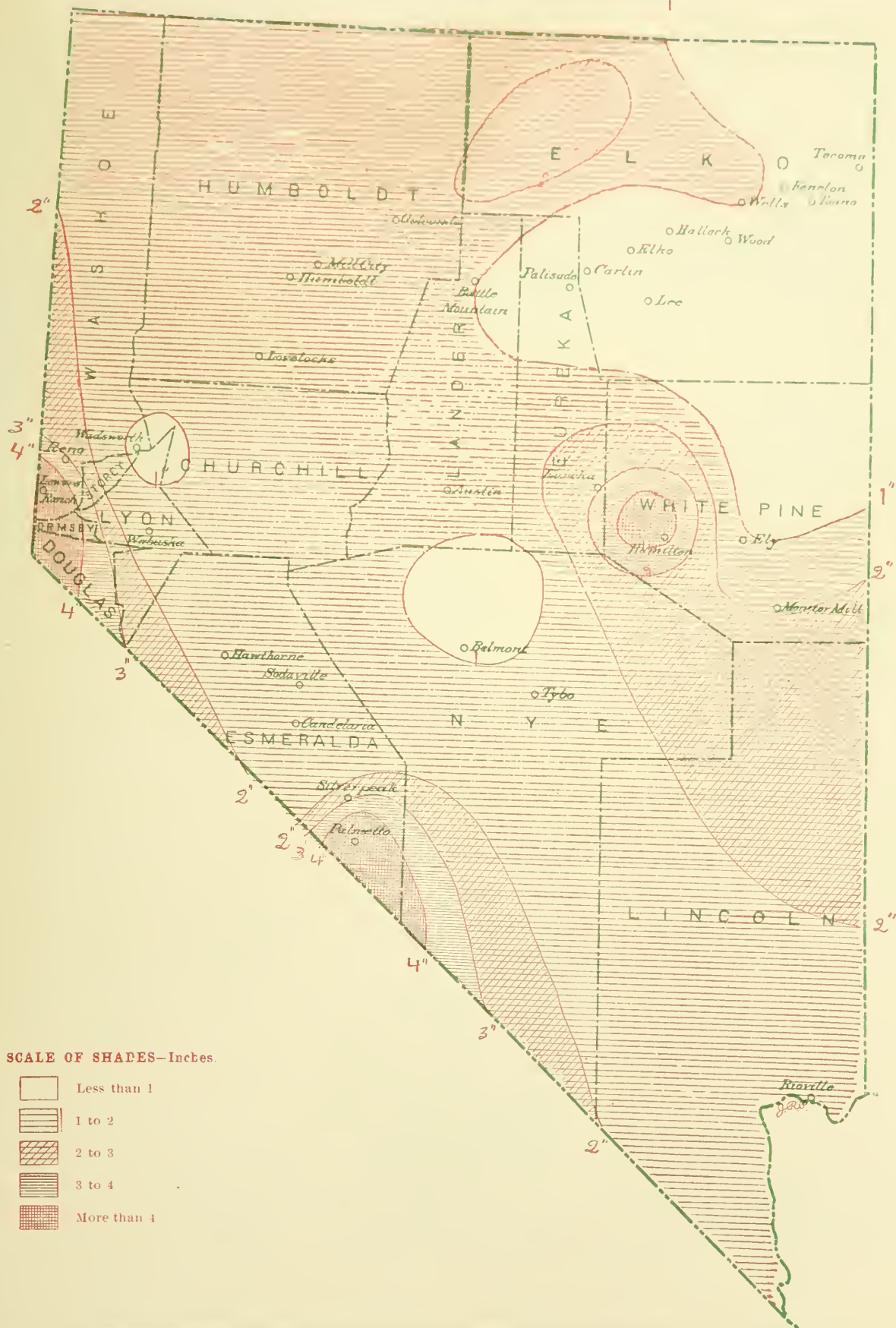


### Stations.

[illegible]



# TOTAL PRECIPITATION FOR DECEMBER, 1906





## DAILY PRECIPITATION FOR DECEMBER, 1906.

Stations	Day of Month.																															Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Northern Section.																																	
Battle Mountain					0.10		0.05				T	T	0.20																			0.15	
Beowawe				0.20							T	0.05																				0.30	
Carlin				0.25			0.08			0.10	0.05																					0.40	
Clover Valley				0.10																												0.35	
Elko												0.10																				1.20	
Golconda				0.10			0.05																									1.20	
Halleck																																1.18	
Humboldt																																1.72	
Lovelock																																1.62	
Mill City				0.08	0.40		0.10			0.10		0.10																				0.06	
Palisade				0.88			0.28	0.08			0.33				0.15																	0.95	
Paradise Valley				0.05				0.05		0.05	0.55	0.40	0.06	0.02	0.15																	0.10	
Quinn River Ranch				0.25									T																			0.28	
San Jacinto				T				0.24				0.26	T		1.00																	0.42	
Squaw Valley																																0.20	
Tecoma				0.20																												1.20	
Wells																																1.20	
Winnemucca				0.03	0.46		0.02	0.18			T	0.19	0.14	T	0.02																	1.25	
Eastern Section.																																	
Ely				0.20																												1.00	
Hamilton				0.30	0.30	0.20		0.10	0.20	0.20	0.40	0.50	0.10	0.10	0.10																	4.60	
Central Section.																																	
Austin				0.18	0.74																											1.83	
Eureka				0.60	0.15						0.05		0.33																			0.47	
Potts				0.10	0.05							T	T																			0.03	
Western Section.																																	
Carson City				0.13	0.35			0.56		0.79	1.09																					4.24	
Carson Dam				0.48							0.06	0.11	T	T	T																	0.94	
Fallon				0.01	0.50						0.20	0.10																				0.19	
Gardnerville				0.55			0.30				T	1.30																				1.56	
Hazen				0.64	0.09					0.04	0.11	0.11																				4.55	
Leetville											0.20																					1.24	
Lewers' Ranch				1.00	0.20	0.05				T	0.80	3.05																				0.20	
Reno				0.06	0.17			1.75			0.86	0.65	0.06																			7.90	
Soda Lake								0.01	0.06																							2.43	
Stillwater																																	
Wabuska				0.10																													
Wadsworth				0.60							T	0.12																					1.12
Southern Section.																																	
Columbia				0.90	0.90																											2.50	
Geyser				0.28	0.27					T	0.12	0.20																				0.30	
Logan				0.05	0.10						T	0.45																				0.05	
McAfee's Ranch				0.30	0.40	0.10																										0.40	
Mina				0.40	0.20	2.10	0.45				T	0.40	0.61																			1.20	
Palmetto				0.36	0.24					0.06		0.50																					2.61
Pioche				0.58	0.14					0.02		0.06																					1.83
Tonopah				0.04	T																											0.18	

T indicates trace.

\* Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, - J. G. MCCARTHY, SUPT



1907



stack  
U. S. DEPARTMENT OF AGRICULTURE.

ANNUAL SUMMARY, 1906

NEVADA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

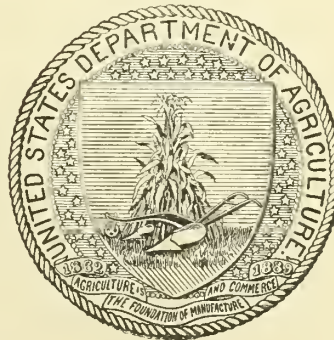
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

HARRY O. GEREN

SECTION DIRECTOR

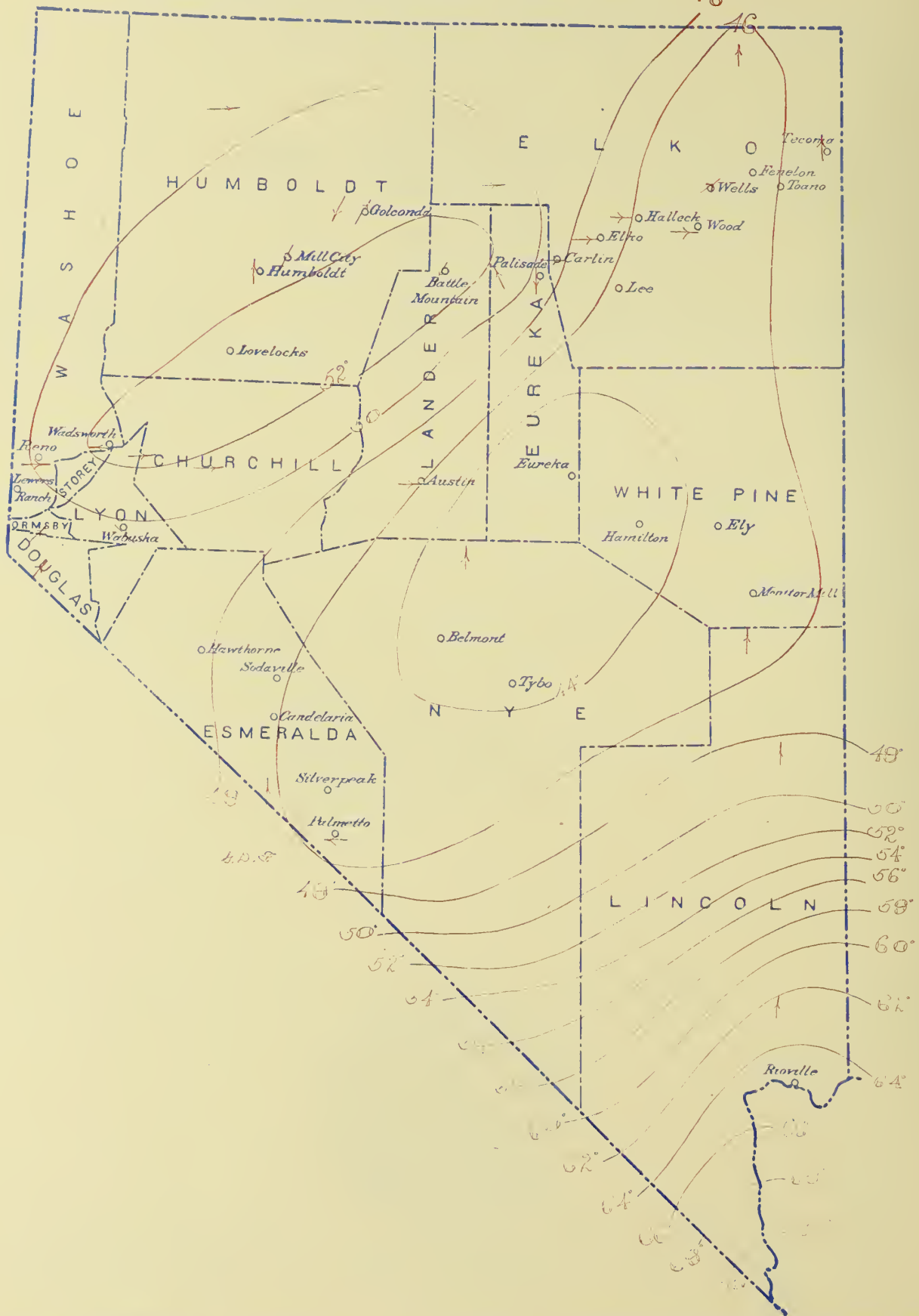


CLEVELAND, OHIO:  
WEATHER BUREAU OFFICE.  
MARCH 29, 1907.



CHART I. MEAN ISOTHERMS AND PREVAILING WINDS FOR THE YEAR 1906.

(Lines pass thru points of equal temperature. Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,

HARRY O. GEREN, Section Director.

Vol. XX.

RENO, NEVADA.

ANNUAL, 1906.

## CLIMATOLOGICAL REVIEW OF THE YEAR.

The average temperature for the State for the month of January was a little above the normal. The highest temperatures, as a rule, were recorded during the last half of the month, while the lowest temperatures occurred, generally, during the first portion, especially on the 1st and 2nd. The precipitation, also, was above the normal. There were only two Januaries of the preceding sixteen, during which a greater amount of precipitation fell—those of 1890 and 1895. This precipitation occurred, almost entirely, during the period from the 12th to the 19th, inclusive, the greatest amounts falling on the 12th and 13th. After the 19th a dry period prevailed, extending thru the 8th of February.

During February the temperature departure was decidedly above the normal. The maxima were recorded mostly during the second half of the month, and the minima were confined to the first and last five-day periods, most of them occurring during the first pentad. The feature which most distinguished this February from the preceding ones on record, was that it was the first one for which a minimum temperature below zero was not reported from at least one station in the State. The precipitation was a little below the normal and was quite scattered thruout the portion of the month remaining after the 8th.

March was characterized by generally high winds and stormy weather, especially after the 10th. The mean temperature was practically normal. The highest temperatures were observed on the 8th, 9th and 10th over the southern half of the State, while over the northern half they were recorded on various dates in the last decade. The lowest temperatures occurred generally during the middle of the month, from the 14th to the 19th, inclusive. Past records for March, for eighteen years, show that the variations in the average amount of precipitation for the State during the month is small. This March the precipitation was only 0.35 inch above the normal, yet it was almost equal to the greatest amount ever recorded in March.

The mean temperature for April was only slightly above the normal. Warm weather prevailed from the 19th to the 22nd, inclusive, the maximum temperatures for the month being recorded on the 20th and 21st. The minimum temperatures were registered quite generally during the first four days of the month, and were all below the freezing point. The precipitation was above the normal amount and fell during the first and third decades, leaving the second decade dry. The San Francisco earthquake, which occurred in the early morning of the 18th, was recorded by the seismograph at Carson City at 5:12:25 A. M., 120th meridian time, with the movement from west to east. The shock was reported by observers at Hazen, Lewers' Ranch and Reno. A second earthquake was recorded by the instrument at Carson City on the 23rd.

A cool period began during May and extended thru June. The lowest temperatures occurred over the southern section on the 29th and 30th, but over the remainder of the State they were generally recorded on the 16th and 17th. The highest temperatures were reported on the 8th, 9th and 10th. The precipitation was above the normal and occurred mostly in the periods from the 11th to the 16th, inclusive, and from the 22nd to the 29th, inclusive. Killing frosts were reported from practically all of the stations.

The average temperature for June, 60.2°, was decidedly below the normal, making the month the fourth coldest June in the record of eighteen years. Notwithstanding this, however, the absolute maximum of 115° was exceeded in only two other instances, 117° in 1896 and 116° in 1902. Precipitation occurred over the northern half of the State on the 5th and 16th, and fell at scattered stations over the whole State from the 25th to the 28th, inclusive. The average amount for the month was above the normal. There was 0.5 inch of snowfall at Beowawe on the 6th, and a trace at Potts on the 5th. Freezing temperatures occurred at about one-half of the stations.

The weather during July was characterized by the highest mean temperature on record, not only for the month of July, but also for all other months. The highest monthly mean temperature was 90.1° at Logan. The dates on which the maximum and minimum temperatures occurred were quite well distributed thruout the month. A temperature of 32°, accompanied by a killing frost, was observed at Potts on the 25th. Coupled with the fact that it was the warmest month, is the fact that it lacked only 0.12 inch of precipitation of being the wettest July. Most of the precipitation fell over the southern half of the State.

Both the temperature and precipitation averaged nearly normal for the State during August. Over the southern portion of White Pine and the northern portion of Lincoln counties, however, the precipitation was very heavy, being caused by local thunderstorms. Killing frosts were reported from Halleck, Hamilton, Potts and Wells, occurring mostly on the 25th. An earthquake was recorded on the seismograph at Carson City on the 18th, the vibrations being from east to west.

The normal conditions which prevailed during August continued thru September. Cool weather was experienced from the 10th to the 17th, the minimum temperatures for the month occurring almost entirely on the 15th, 16th or 17th. The maximum temperatures were recorded mostly during the first decade. Killing frosts were observed at a number of stations in the northern portion, and at a few stations of high altitude in the southern portion. A trace of snow, the first of the season, occurred at Humboldt on the 14th, Hamilton on the 14th and 15th, and at Morey and Palletto on the 15th.

The weather during October was practically normal in temperature, but was deficient in precipitation. The highest temperatures were recorded mostly during the first few days of the month. Killing frosts or freezing temperatures were observed at all the stations, except Logan. The precipitation averaged only 0.10 inch and occurred generally on the 19th, 20th and 31st.

November, 1906, was the second coldest November on record. The coldest one was that of 1898, which had a mean temperature of 35.1°, while this one had a mean of 35.5°, being 3.9° below the normal. The absolute minimum of 22° below zero is also the second lowest minimum ever recorded during the month of November, being exceeded only by that of 1896, when 23° below zero was the absolute minimum. The precipitation was slightly above the normal and occurred during the first five and last fifteen days of the month.

During December the temperature and precipitation both averaged above the normal. The first and last few days of



the month were cold, but during the period from the 10th to the 26th the temperature averaged well above the normal. The precipitation was confined, almost entirely, to the periods from the 3rd to the 14th, inclusive, and from the 25th to the 31st, inclusive. At Lewers' Ranch, 7.90 inches of precipitation occurred, while at Palmetto the amount of precipitation was 7.31 inches.

A short review of the year shows that while the mean annual temperature for the State was almost exactly normal, still there were several months which show a very marked departure from the usual conditions prevailing during those months. February was the first of the Februaries on record which did not have a temperature below zero reported from at least one station in the State. June was the fourth coldest June, yet the absolute maximum is the third highest for that month. July had the highest mean temperature for the State ever recorded, not only for July, but also for all other months. November was the second coldest November, and the absolute minimum was the second lowest on record for that month. The precipitation for the year, 15.47 inches, is the largest on record, the next greatest being that of 1891 when the total amount of precipitation for the State was 14.06 inches. January was the third wettest January, and July was the third wettest July, the latter month lacking but 0.12 inch of having the greatest amount of precipitation ever recorded for that month.

#### SUMMARY FOR THE YEAR.

##### Temperature.

The annual mean temperature for the State was 48.5°, which is 0.1° above the normal. The highest temperature recorded during the year was 115° at Logan on June 15th, and the lowest recorded was 22° below zero at Geyser on November 29th. The highest annual mean was 53.3° at Battle Mountain, and the lowest annual mean was 43.2° at Potts. The absolute annual range for the State was 137°.

##### Precipitation.

The average for the State was 15.87 inches, which is 5.75 inches above the normal. The greatest annual amount was 39.78 inches at Lewers' Ranch, and the least annual amount was 3.92 inches at Humboldt. The greatest monthly amount was 14.33 inches at Lewers' Ranch in January, and the least amount was zero, occurring at a number of stations. The annual snowfall for the State averaged 54.0 inches. The average number of days with 0.01 inch or more of precipitation was 53.

##### Sunshine and Cloudiness.

The average number of clear days was 171, partly cloudy days, 96, and cloudy days, 98.

##### Wind.

The prevailing direction of the wind was from the west.

#### SNOWFALL IN THE MOUNTAINS, SEASON OF 1905-1906.

The snowfall during November and December, 1905, was generally above the average, and the amount on the ground at the end of December was commonly above the average. During January, 1906, the precipitation was unusually heavy, and general rain and moist snow shortly after the middle of the month settled the snow until it was solid and icy. The snowfall during February continued above the average, so that, by the end of the month, the amount on the ground was greatly in excess of the normal. March experienced about

the average amount of snowfall, and the amount on the ground at the end of the month was generally reported to be from one to three times the usual amount. Owing to the large amount of snow, and its resulting great weight, it was packed very solidly, so that the prospect for an abundant supply of late irrigation water was excellent.

#### COMPARATIVE DATA.

Year.	TEMPERATURE.			Precipitation.
	Mean.	Maximum.	Minimum.	
1890.....	49.6	118	-39	12.88
1891.....	48.3	101	-30	14.06
1892.....	48.5	115	-25	10.54
1893.....	48.3	110	-40	9.22
1894.....	48.8	108	-41	10.89
1895.....	47.1	112	-35	7.90
1896.....	48.7	117	-26	10.61
1897.....	48.5	116	-22	9.79
1898.....	47.9	114	-28	6.49
1899.....	48.6	110	-29	9.12
1900.....	49.6	113	-12	8.25
1901.....	48.0	104	-27	13.20
1902.....	48.0	117	-32	7.25
1903.....	48.1	114	-32	7.06
1904.....	49.2	110	-23	10.62
1905.....	47.1	109	-37	8.32
1906.....	48.5	115	-22	15.87

#### Dates on which First and Last Killing Frosts Occurred, or Minimum Temperature fell to 32 Degrees.

Station.	Last in Spring.	First in Autumn.	Station.	Last in Spring.	First in Autumn.
Austin.....	May 28	Sept. 16	McAfee's Ranch.....	May 29	Sept. 13
Battle Mountain.....	June 18	Oct. 1	Mill City.....	.....	Oct. 20
Belmont.....	.....	.....	Minia.....	.....	Oct. 19
Beowawe.....	.....	Oct. 19	Morey.....	May 31	Sept. 15
Carlin.....	.....	.....	Palisade.....	May 17	Sept. 17
Carson City.....	May 30	Sept. 12	Palmetto.....	June 17	Sept. 16
Carson Dam.....	.....	Sept. 4	Paradise Valley.....	May 29	Sept. 10
Clover Valley.....	June 23	Sept. 11	Pioche.....	June 24	Oct. 14
Elko.....	May 17	Oct. 5	Potts.....	June 25	Aug. 23
Ely.....	.....	Sept. 16	Quinn River Ranch.....	.....	Sept. 11
Eureka.....	June 23	Sept. 16	Reno.....	June 7	Oct. 5
Fallou.....	May 31	Oct. 4	San Jacinto.....	June 23	Sept. 11
Gardnerville.....	June 7	Oct. 3	Soda Lake.....	.....	Oct. 18
Geyser.....	June 30	Sept. 14	Squaw Valley.....	June 25	Sept. 1
Golconda.....	.....	Oct. 4	Stillwater.....	.....	Sept. 19
Halleck.....	June 8	Sept. 2	Tecoma.....	May 31	Sept. 11
Hamilton.....	June 21	Aug. 25	Tonopah.....	.....	Oct. 19
Hazen.....	May 28	Oct. 18	Verdi.....	.....	.....
Humboldt.....	May 17	Oct. 18	Wabuska.....	May 17	Sept. 12
Leetville.....	.....	Oct. 4	Wadsworth.....	May 17	Oct. 30
Lewers' Ranch.....	June 7	Oct. 5	Wells.....	.....	Aug. 24
Logan.....	.....	Nov. 20	Winnemucca.....	May 17	Oct. 20
Lovelock.....	June 13	Sept. 16			

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SUBJECT.	REPORT.
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Lantern slides.....	May.
Lewers' Ranch, climatology of.....	November.
Monthly Bulletin, title changed.....	February.
Mount Rose, notes on.....	September.
temperature on.....	May to August.

#### ERRATA, ANNUAL, 1905.

Page 9.—Candelaria: The total precipitation for May was published 1.85 and should be left blank, as should also the departure.

Page 10.—Winnemucca: The date of the first killing frost in autumn was published September 18 and should be September 29.



## Climatological Data for the Year 1906.

Stations	Counties	Temperature (degrees Fahrenheit)								Precipitation (inches)											Prevailing direction of wind
		Elevation, feet	Length of record, years.	Annual mean.	Highest.	Date	Lowest.	Date	Length of record, years.	Total for the year	Greatest monthly	Month	Least monthly	Month	Total snowfall	Number rainy days	Number clear days	Number partly cloudy days			
NORTHERN SECTION.																					
Battle Mountain. . . . .	Lander	4,511	36	53.3	107	July 20	0	Jan. 4	36									152	134	79	W
Carlin. . . . .	Elko	4,807	30		95	Aug. 16	-3	Nov. 22	36												W
Clover Valley. . . . .	Elko	6,000	7	44.8	93	July 21*	13	Jan. 8*	7	14.43	3.30	Jan.	0.03	Aug.	10.5	63	153	176	76	W	
Gileonda. . . . .	Humboldt	4,392	28		100	July 20	0	Dec. 3	28												W
Halleck. . . . .	Elko	5,229	34		98	July 22	13	Nov. 30	34												W
Humboldt. . . . .	Humboldt	4,230	35	51.7	96	July 31	13	Mar. 16	35	3.92	1.20	Dec.	0.60	*July	25.8	16	210	51	101	S	
San Jacinto. . . . .	Elko		2	45.6	98	July 21*	19	Nov. 19	2	11.28	2.15	Feb.	0.10	Oct.	63.1	41	147	141	84	S.	
Tecoma. . . . .	Elko	4,812	29	47.0	99	Aug. 10	-4	Nov. 19*	29	13.64	2.00	Jan.	0.20	Oct.	62.0	38				S.	
Wells. . . . .	Elko	5,623	35		99	July 21	14	Jan. 9*	35												W
Winnemucca. . . . .	Humboldt	4,432	28	48.8	97	July 26*	-4	Nov. 30	28	10.50	2.18	Jan.	T	Oct.	44.8	78	176	81	108	W	
CENTRAL SECTION.																					
Potts. . . . .	Nye	6,990	14	43.2	98	Aug. 2	-16	Nov. 29	14	6.87	2.22	July	0.10	Aug.	33.6	41	84	88	193	S	
WESTERN SECTION.																					
Carson City. . . . .	Ormsby	4,660	27	49.4	97	July 12	5	Dec. 6	27	17.37	5.75	Jan.	0.02	Oct.	53.2	77	197	97	71	S.W	
Fallon. . . . .	Churchill	3,965	2		101	July 11*	-2	Dec. 1*	2												W.
Gardnerville. . . . .	Douglas	4,830	8	50.9	96	June 18*	5	Jan. 2*	8	13.11	4.55	Dec.	T.	June	21.0	33					S.W.
Lewers' Ranch. . . . .	Washoe	5,500	19	49.7	92	July 11	8	Jan. 2	19	39.78	14.33	Jan.	0.60	Oct.	83.8	56	167	114	84		
Reno. . . . .	Washoe	4,532	36	50.5	98	July 13	9	Jan. 2	36	11.05	3.55	Jan.	0.68	Oct.	24.9	70	192	101	72	W.	
Wabnska. . . . .	Lyon	4,347	4	49.4	95	July 12*	1	Dec. 2	4	5.12	1.12	Dec.	T.	*Aug.		25	183	140	42	N.W	
Wadsworth. . . . .	Washoe	4,077	35	53.0	103	Aug. 15	0	Jan. 2	35								251	50	64	E.	
SOUTHERN SECTION.																					
Geyser. . . . .	Lincoln		2	44.5	95	Aug. 15	-22	Nov. 29	2	19.04	4.93	Aug.	0.00	Oct.	45.5	58					S.
Palmetto. . . . .	Esmeralda	6,780	17	45.8	92	Aug. 16	-15	Nov. 18	17	37.96	7.31	Dec.	T.	Sept.	152.0	75	186	73	166	E.	
Pioche. . . . .	Lincoln	6,100	2	48.5	109	July 22	-5	Mar. 18	2	19.15	3.33	Aug.	T.	Oct.	52.0	74	129	49	187	S.	

\* Occurred on other dates or months also.

† The temperature record is from the tri-daily readings of an ordinary thermometer, made at 7 a.m., 2 p.m. and 9 p.m.

‡ The maximum thermometer is not supplied by the Weather Bureau, but is of a standard make.

§ The instruments are the property of the observer, but are of standard make.



## Monthly and Annual Mean Temperatures for the Year 1906, with Departures from the Normal.

	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.	
Stations.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.
NORTHERN SECTION.																										
Battle Mountain .....	29.9	+2.4	42.2	+9.2	44.2	+3.3	53.5	+3.7	57.4	-0.6	60.7	-7.6	83.2	+5.7	75.0	+0.3	64.4	+1.6	51.2	+1.8	43.3	+5.7	35.0	+4.8	53.3	+2.5
Beowawe .....	29.4	+3.4	37.9	+6.7	44.8	+3.9	54.7	+5.8	.....	.....	.....	.....	76.2	-2.8	72.3	+2.9	.....	.....	46.1	+2.6	33.4	+0.8	32.6	+8.6	.....	.....
Carlin .....	27.3	+6.9	32.4	+3.8	39.5	+4.0	49.2	+3.1	54.2	+0.3	.....	.....	68.3	.....	65.2	.....	57.0	.....	48.0	.....	28.3	.....	33.1	.....	44.8	.....
Clover Valley .....	22.2	.....	28.2	.....	34.3	.....	45.2	.....	51.6	.....	55.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Elko .....	24.2	+0.7	29.5	+2.2	35.3	+1.4	52.7	+8.0	.....	.....	59.6	-4.9	75.1	+4.0	73.1	+2.4	61.8	+4.8	45.2	+2.6	31.6	-1.6	.....	.....	.....	.....
Golconda .....	27.6	-2.5	34.3	-1.1	37.4	-5.1	44.6	-6.6	.....	.....	.....	.....	78.2	-0.1	71.6	-5.1	61.0	+1.7	51.0	+1.1	.....	.....	29.6	+5.4	.....	.....
Halleck .....	22.3	+0.7	.....	.....	.....	.....	47.0	+0.6	53.6	-2.4	59.0	-6.0	72.2	-0.7	69.8	0.0	.....	.....	43.8	-0.4	31.8	+1.0	30.6	+6.3	.....	.....
Humboldt .....	28.6	-1.3	38.6	+4.0	39.8	-2.2	54.6	+4.3	54.6	-3.6	62.0	-4.3	80.4	+6.3	70.4	-2.9	62.4	+0.3	52.0	+2.2	41.9	+2.2	34.7	+6.5	51.7	+1.0
Lovelock .....	30.6	-1.1	38.8	+2.8	36.3	-7.5	54.3	+2.3	55.6	-6.6	62.1	-7.9	77.4	-1.7	73.8	-4.7	62.6	-3.3	50.6	-2.9	36.3	-5.8	.....	.....	.....	.....
Mill City .....	.....	.....	32.0	-2.0	36.0	-4.8	51.2	+1.9	.....	.....	.....	.....	81.3	+5.7	.....	.....	55.0	-7.6	51.1	-0.6	41.2	+1.5	38.6	+7.9	.....	.....
Palisade .....	28.3	+4.6	34.0	+4.8	37.7	+0.1	48.8	+0.9	53.8	-3.6	58.8	-7.3	74.2	-0.3	70.1	-2.4	58.4	-2.9	46.0	-1.0	.....	.....	.....	.....	.....	.....
Quinn River Ranch .....	24.0	.....	.....	.....	.....	.....	48.4	.....	.....	.....	.....	.....	.....	.....	70.3	.....	58.7	.....	47.6	.....	34.9	.....	34.2	.....	.....	.....
San Jacinto .....	26.6	.....	31.4	.....	34.1	.....	47.0	.....	52.2	.....	55.8	.....	71.0	.....	64.4	.....	57.0	.....	46.0	.....	29.6	.....	31.8	.....	45.6	.....
Squaw Valley .....	.....	.....	.....	.....	.....	.....	.....	.....	50.0	.....	58.6	.....	70.8	.....	66.8	.....	55.4	.....	43.8	.....	30.9	.....	30.6	.....	.....	.....
Tecoma .....	23.2	+3.5	28.5	+0.4	31.9	-3.3	49.8	+1.0	57.1	-2.0	62.8	-4.8	73.6	-4.4	69.0	-7.0	58.4	-3.9	45.6	-1.1	30.2	-2.5	31.2	+5.1	47.0	-1.6
Wells .....	23.5	+1.4	27.2	+0.6	33.8	-2.4	47.3	-2.2	.....	.....	57.1	-7.4	71.7	-1.3	65.3	-6.5	56.1	-2.8	.....	.....	28.5	-4.6	25.3	-0.1	.....	.....
Winnemucca .....	26.6	-0.4	36.7	+3.7	39.4	-0.2	47.8	+1.3	52.6	-1.5	59.3	-3.3	75.0	+3.7	69.6	-1.0	59.9	-0.2	49.7	+1.5	35.2	-1.9	34.0	+3.1	48.8	+0.4
EASTERN SECTION.																										
Ely .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	66.0	+1.5	57.0	+2.4	47.8	+4.0	34.4	+1.0	35.4	+7.4	.....	.....
Hamilton .....	.....	.....	.....	.....	.....	.....	.....	.....	44.5	.....	53.4	.....	64.6	.....	61.4	.....	54.4	.....	45.8	.....	.....	.....	39.4	.....	.....	.....
CENTRAL SECTION.																										
Anstin .....	29.5	+2.5	.....	.....	.....	.....	43.4	-1.0	49.8	-1.5	58.4	-1.4	72.6	+3.7	69.2	+0.1	59.6	-1.0	49.8	+1.2	33.4	-5.1	33.2	+3.2	.....	.....
Eureka .....	.....	.....	.....	.....	.....	.....	43.2	.....	49.8	.....	57.5	.....	70.8	.....	68.5	.....	59.2	.....	48.9	.....	33.2	.....	32.6	.....	.....	.....
Potts .....	22.6	-1.6	33.1	+6.7	33.6	+3.2	41.0	-5.1	47.8	-8.3	56.3	-13.5	67.2	-9.2	64.6	-11.5	52.6	-9.5	42.4	-4.5	29.1	-7.3	28.7	+3.1	43.2	-4.8
WESTERN SECTION.																										
Carson City .....	34.4	+2.1	40.6	+4.1	40.4	-0.8	46.5	-1.5	51.2	-3.0	59.2	-2.0	70.6	+2.6	67.8	+1.0	59.0	-0.5	50.2	+0.6	38.0	-3.4	35.1	+2.8	49.4	+0.2
Carson Dam .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	80.0	.....	74.8	.....	63.9	.....	53.4	.....	38.9	.....	35.4	.....	.....	.....
Fallon .....	31.7	.....	40.7	.....	.....	.....	50.5	.....	56.6	.....	63.4	.....	78.2	.....	74.6	.....	62.8	.....	52.3	.....	37.8	.....	35.9	.....	.....	.....
Gardnerville .....	38.8	.....	44.1	.....	44.8	.....	51.0	.....	56.0	.....	60.4	.....	69.0	.....	67.0	.....	58.6	.....	50.5	.....	35.8	.....	34.5	.....	50.9	.....
Hazen .....	29.3	.....	.....	.....	42.3	.....	49.5	.....	57.0	.....	64.2	.....	82.2	.....	79.0	.....	66.5	.....	54.4	.....	37.4	.....	36.3	.....	.....	.....
Leetville .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	80.8	.....	76.7	.....	65.9	.....	52.8	.....	38.4	.....	33.0	.....	.....	.....
Lewers' Ranch .....	34.6	+3.4	40.9	+6.3	40.6	+1.2	47.3	+0.4	51.6	-2.4	57.8	-2.8	69.4	+0.6	67.6	-1.9	59.3	-1.9	52.4	+0.6	39.6	-3.1	35.8	+1.4	49.7	+0.2
Reno .....	34.6	+3.8	41.0	+7.4	40.6	+1.1	47.2	+0.3	52.3	-1.8	59.2	-3.3	73.4	+3.4	70.4	+1.7	61.0	+1.0	51.8	+1.6	38.8	-2.3	36.1	+2.7	50.5	+1.3
Soda Lake .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	79.0	.....	74.9	.....	66.3	.....	53.0	.....	42.4	.....	.....	.....	.....	.....
Wabuska .....	32.6	.....	39.7	.....	40.7	.....	47.4	.....	53.8	.....	61.0	.....	72.1	.....	68.3	.....	58.0	.....	48.2	.....	35.3	.....	35.1	.....	49.4	.....
Wadsworth .....	33.5	+1.5	38.8	+4.0	41.6	-3.4	49.8	-2.9	56.4	-6.7	.....	.....	80.6	+2.2	75.0	-3.8	61.2	-4.8	52.8	+1.4	42.7	+2.9	40.2	+6.0	53.0	-1.1
SOUTHERN SECTION.																										
Columbia .....	.....	.....	41.3	.....	40.4	.....	46.4	.....	54.2	.....	64.1	.....	78.0	.....	72.9	.....	64.4	.....	.....	.....	.....	.....	33.1	.....	.....	.....
Geyser .....	27.8	.....	35.6	.....	34.4	.....	42.6	.....	48.4	.....	54.4	.....	67.6	.....	62.9	.....	53.2	.....	45.4	.....	31.0	.....	30.8	.....	44.5	.....
Logan .....	.....	.....	.....	.....	.....	.....	.....	.....	71.0	.....	80.8	.....	90.1	.....	86.0	.....	77.6	.....	67.2	.....	50.8	.....	47.2	.....	.....	.....
McAfee's Ranch .....	32.3	.....	40.6	.....	42.2	.....	46.1	.....	54.5	.....	62.8	.....	.....	.....	67.6	.....	58.0	.....	46.3	.....	28.0	.....	25.9	.....	.....	.....
Morey .....	29.8	.....	35.9	.....	34.0	.....	41.0	.....	49.0	.....	60.2	.....	69.5	.....	.....	.....	58.6	.....	.....	.....	.....	.....	.....	.....	.....	.....
Palmetto .....	30.4	+4.9	37.6	+5.7	36.7	0.0	41.1	-2.5	47.5	-3.9	57.3	-2.5	68.0	+1.1	64.8	-0.6	56.5	-1.6	48.0	0.0	30.6	-8.3	31.2	-0.7	45.8	-0.7
Pioche .....	25.6	.....	33.7	.....	33.4	.....	42.2	.....	51.8	.....	62.1	.....	74.5	.....	72.8	.....	64.0	.....	54.2	.....	35.8	.....	31.9	.....	48.5	.....
Tonopah .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	76.0	.....	71.4	.....	63.3	.....	54.0	.....	35.6	.....	35.5	.....	.....	.....



## Monthly Maximum Temperatures for the Year 1906, with Dates.

Stations.	January		February		March		April		May		June		July		August		September		October		November		December	
	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.
<b>NORTHERN SECTION.</b>																								
Battle Mountain	56	31	64	12*	74	8	85	26*	92	10	89	26*	107	20	102	14*	95	4	77	9	71	8	19	21
Boowawe	50	14	60	20	68	21	80	21	81	10			101	20			88	1		1*			19	16*
Carlin	45	18	52	17	65	26*	80	21	85	10	60	11	91	17*	95	16			1*	6	14	2	11	
Clover Valley	43	17	47	20	59	20	82	21	82	9	80	11	93	21	91	15	86	19	83	1	69	3		
Elko	49	31	48	6	65	29	80	26*	80	18	85	11	100	12*	100	8*	90	1*	85	1*	71	9		
Golconda	42	25	50	16*	62	9	79	21			85	20*	100	20	99	10	87	7*	81	1	69	10	56	21
Halleek	42	12*			62	29	78	16	84	9	90	9*	98	22	96	8*			82	1	66	1*	4	*
Humboldt	47	24	62	11	65	7	80	26*	85	10*	84	30	96	31			87	5	78	1	65	1*	52	1
Loveock	55	27	60	20*	70	9	83	22*	85	4*	90	30	102	14	102	30	100	4	86	9	75	10		
Mill City			48	26	52	22	82	22	84		86	30	102	19*	100	17*	86	19	82	1*	66	12	60	11
Pallisade	52	22*	60	17*	74	21	86	20	87	6	93	11	100	23*	102	16	94	21	82	2*				
Quinn River Ranch	47	18*					82	22	88	9	90	30	99	25	100	9	89	6*	83	1*	67	11	58	26
San Jacinto	48	16	51	8	58	26	79	19	82	12	91	11	98	21*	97	12	88	6	82	3*	67	4	51	11*
Squaw Valley									88	10	100	20	102	20	104	10	88	3*	84	1	70	10	62	21
Tecoma	48	26	50	14	70	29*	85	21	83	9*	90	11	98	20	99	10	89	7	82	2	65	1*	59	20*
Wells	47	18	48	15	53	28	64	22			92	10	99	21	98	16	84	2			62	6*	48	4*
Winnemucca	48	18	63	20	68	29	81	20	84	9*	87	11	97	20	97	16	88	3	83	9	70	10	55	26
<b>EASTERN SECTION.</b>																								
Ely															92	15	87	9	78	18	78	9	59	21
Hamilton								72	8	80	11	87	24	87	16	81	28	78	15				60	2*
<b>CENTRAL SECTION.</b>																								
Austin	48	16					73	20*	78	9	86	11	92	19*	94	16	81	3*	80	2	66	14	52	21
Eureka							73	20*	76	8*	88	11	92	19*	94	16	84	3*	83	2	67	14*	54	21
Potts	44	18	53	26	59	9	72	19	80	8	91	30	94	20	98	2	87	3	76	16	68	13	49	22
<b>WESTERN SECTION.</b>																								
Carson City	56	23	62	26	78	9	79	20	81	8	86	20	97	12	93	7*	86	2	84	9	79	14	56	22
Carson Dam													99	11*	98	7*	89	3	86	2	73	14	56	10*
Fallon	60	18	69	26			84	21	84	8*	90	18	101	11	98	8*	90	3*	88	2	81	14	59	21*
Gardnerville	64	23	69	26	83	9	90	20	92	8	96	18	96	19	91	15	88	1	80	2	75	14*	58	21
Hazen	52	25			70	10	83	19	85	9	92	18*	102	12	102	15	96	2	90	2	72	14	60	30
Leetville													102	2*	100	7*	91	3	87	1	76	15	58	21
Lewers' Ranch	53	22*	60	26	69	8	81	20	84	8	85	30	92	11*	92	8*	82	21	82	9	79	14	56	25*
Reno	55	24	62	26	70	8	81	20	81	8	88	30	98	13	95	9	86	22	82	10	74	14	62	7
Soda Lake													102	13	101	15*	100	7*	89	1	72	10		
Wabaska	66	18	67	26	70	8*	80	19*	81	9	88	18*	95	12*	93	15	88	4	82	2	71	13	62	11
Wadsworth	59	25	68	18	74	8	85	20	89	8	94	19*	102	3*	103	15	85	2	85	15	78	10	74	26
<b>SOUTHERN SECTION.</b>																								
Columbia			61	26*	67	8	76	21	81	8	91	30	108	20	99	16	87	4*					54	24
Geyser	50	7	60	27	66	9	75	21	78	17	87	21	94	30	95	15	84	8	80	2	70	10	55	24
Logan									98	8*	115	15	114	21*	111	15	103	20	100	3	83	11	67	21
McAfee's Ranch	57	18*	67	27	71	10	79	21	82	9	91	11*			96	14	85	10*	85	2	75	13	55	23*
Morey	57	31	56	21	63	8	70	19*	76	9	88	19	93	12*			83	5						
Palmetto	57	18	58	18*	68	10	75	20	76	8	88	21	90	2*	92	16	80	2*	80	1*	73	15	59	31
Pioche	51	26	60	27	66	9*	85	21	91	9	100	21	109	22	105	15	93	6	90	3	72	14	52	22
Tonopah													93	12	92	15	80	20	81	2	70	14	51	21

\* Occurred on other dates also.



## Monthly Minimum Temperatures for the Year 1906, with Dates.

Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.	
	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.
NORTHERN SECTION.																								
Battle Mountain	0	4*	20	4	8	16	20	8	26	16*	25	1*	51	20	48	1*	38	15*	25	2	18	27	23	1*
Boonawye	-8	1	20	5	16	16	28	3									30	15	26	23		14	1*	
Carlin	0	7*	5	4	16	2	30	4	30	16			60	5*	53	15			20	22*	-3	22	2	1
Clover Valley	-13	8	2	4	-13	16	21	3*	19	17	29	7	44	5	35	24*	28	17	14	20*	0	22*	0	1
Elko	-12	1	10	1	0	16	35	1			38	7			50	22*	36	28	14	23	-5	30		
Golconda	2	7	19	5	4	16	28	4					53	30	40	24	30	16	15	21	1	26*	0	3
Halleck	-12	8			-12	14	26	2	28	16	26	8	45	30	30	25			3	23	-13	30	-4	15
Humboldt	18	2	20	28	13	16	25	6	28	17	35	4			50	21*	35	15	20	31	18	25*	16	31
Lovelock	5	2*	15	28	10	2*	25	1	30	1*	32	13	50	17*	38	26*	29	16	11	25	3	29		
Mill City			18	1	14	15	38	1					60	21*	50	24	41	24	26	22	10	19	16	31
Palisade	-10	1	8	5	4	16	9	4	24	1	34	7*	43	4	35	25	28	17	8	22				
Quinn River Ranch	-7	5				22	1*								39	14	27	16	10	23	-5	19	3	2
San Jacinto	-10	1	9	8	-15	16	14	4	20	16	30	8	38	28	36	27	19	11	7	23	-19	19	-2	15
Squaw Valley									14	17	28	1*	38	19*	34	14*	18	11	3	23	-12	19	-11	1
Tecoma	1	7	10	5	2	16	11	4	28	17	32	7	44	7	39	24	27	11	11	22*	-4	19*	-4	1
Wells	-14	9	8	5	-4	16	27	2			36	7	42	16*	26	25	26	17			-14	18	-10	18
Winnemucca	-3	2	18	5	2	16	23	12	28	17	36	7	47	30	38	24	29	16	14	22	-4	30	-2	2
EASTERN SECTION.																								
Ely									20	16*	22	7	42	28	41	24	29	18	17	23	-3	22	3	17
Hamilton															32	25	23	17	12	4*			3	31
CENTRAL SECTION.																								
Austin	8	1				18	1*	25	16	33	7	54	1*	43	24	31	16	20	22	4	19	8	1	1
Eureka						14	4	23	16	28	7	47	3	38	25	27	16	13	22	-6	19	1	1	1
Potts	-15	2*	8	1	-7	18	15	4	17	16	21	7	32	25	31	23	20	16*	5	23	-16	29	-4	1
WESTERN SECTION.																								
Carson City	6	2	21	1	18	1*	22	4	26	17	33	7	43	9*	39	25	30	17	11	22	10	29	5	6
Carson Dam													55	1	45	25	38	17	20	23	9	27	10	1
Fallon	6	2	11	1		18	4	31	17	38	7	53	30	42	25	34	16	22	23	-1	29	-2	1*	
Gardnerville	5	2	20	1	15	19	19	4	26	16*	30	1*	43	8	38	22	33	16*	12	20	9	26*	5	5
Hazen	3	16			8	14	16	3	28	28	35	4	55	26	47	25	37	16	20	21	1	30	2	1
Leeville													54	29*	50	23*	40	12	22	22	0	30	0	1
Lewers' Ranch	8	2	24	1*	14	19	17	1	25	16	32	7	46	9*	40	23	33	16	21	22	11	19	10	1*
Reno	9	2	23	1	18	19	20	4	28	17	32	7	49	9	42	23	35	16	19	22	13	29	11	2
Soda Lake													50	30*	43	23*	39	15*	23	23	0	29		
Wabuska	5	4*	13	1	10	2*	18	4	27	17	35	7	41	1	39	25	31	17	10	22	0	19	-1	2
Wadsworth	0	2	16	1	18	18*	18	2*	29	16	38	7	53	22	52	22	37	14	21	21	4	30	4	1
SOUTHERN SECTION.																								
Columbia			21	23	13	2	19	2	29	29	36	6	54	1	47	22	33	16					7	7*
Geyser	-10	9	8	23	-12	18*	17	3	25	30	25	6	40	6*	36	27	22	17	5	22	-22	29	4	16
Logan									41	29	49	1	62	1	61	4	49	16	34	23	22	20	25	16
McAfee's Ranch	-6	27	14	1*	4	2	19	12*	22	29	33	8			37	26	28	18	1	22	-20	23	-21	6
Morey	3	21	14	23	2	18	14	2	20	29	35	23	47	5*			29	15						
Palmetto	-4	2	14	1	7	2	12	4	19	29	23	7	45	1	38	22*	23	16	11	23*	-15	18	-3	2
Pioche	-2	2*	6	23	-5	18	13	3	17	29	20	1	39	6	44	24	37	15	19	22*	3	20	8	15
Tonopah													58	27	47	21	35	15	18	20	6	19	12	1

\* Occurred on other dates also.



Total Monthly and Annual Precipitation for the Year 1906, with Departures from the Normal.

Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.	
	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
<b>NORTHERN SECTION.</b>																										
Battle Mountain ..	0.00	-0.02	.....	.....	.....	.....	.....	.....	.....	.....	0.45	0.00	0.00	0.11	T.	0.12	0.00	0.21	T.	0.50	0.50	0.00	.....	.....	.....	.....
Beowawe ..	0.00	+0.05	0.02	+0.21	0.75	+0.12	1.10	+0.20	.....	.....	0.85	+0.30	.....	.....	.....	.....	0.00	0.25	.....	0.00	0.00	0.29	0.33	+0.31	.....	.....
Carlin ..	1.00	+0.78	0.55	+0.40	0.90	0.00	1.15	+0.30	1.25	+0.57	1.00	+0.62	.....	.....	0.00	0.51	.....	0.25	T.	0.12	0.40	0.13	0.10	+0.09	.....	.....
Clover Valley ..	3.30	.....	1.00	.....	2.13	.....	1.30	.....	2.50	.....	0.55	.....	0.28	.....	0.03	.....	0.25	.....	0.11	.....	1.14	.....	0.63	.....	14.43	.....
Elko ..	3.90	+2.05	.....	.....	1.17	+0.35	.....	.....	1.42	+0.79	0.56	+0.11	0.06	+0.15	0.00	0.16	0.31	0.11	T.	0.46	0.21	0.21	.....	.....	.....	.....
Gilead ..	1.50	+0.88	.....	.....	.....	.....	1.50	+0.90	.....	.....	0.75	+0.16	.....	.....	0.05	0.08	0.20	0.09	0.00	0.10	.....	.....	.....	.....	.....	.....
Halleck ..	2.10	+1.39	.....	.....	1.30	+0.40	1.20	+0.50	1.60	+0.62	0.30	0.06	T.	0.10	T.	0.17	0.30	0.08	T.	0.56	0.15	0.15	.....	0.21	.....	.....
Humboldt ..	0.91	+0.10	T.	0.80	0.16	0.46	T.	0.67	0.75	+0.05	T.	0.35	0.00	0.02	0.00	0.03	T.	-0.16	0.00	-0.39	0.00	0.51	1.20	+0.61	3.92	1.61
Lowell ..	0.75	+0.25	0.20	-0.33	T.	0.18	T.	0.21	0.15	0.32	0.35	+0.31	T.	0.02	T.	0.06	T.	0.23	.....	.....	0.22	0.15	.....	.....	.....	.....
Mill City ..	.....	.....	0.30	0.12	0.80	+0.18	0.90	0.36	1.10	+0.12	0.00	-0.12	0.00	-0.09	0.48	0.29	0.00	0.20	.....	.....	.....	.....	1.18	+0.25	.....	.....
Palisade ..	0.51	-0.60	1.35	+0.22	1.19	+0.48	1.45	+0.19	1.83	+1.16	1.11	+0.60	0.02	0.11	T.	0.34	0.30	0.04	0.36	0.22	.....	.....	.....	.....	.....	.....
Quinn River Ranch ..	3.10	.....	.....	.....	.....	.....	0.20	.....	1.90	.....	0.05	.....	0.22	.....	0.26	.....	0.5	.....	0.00	.....	0.63	.....	1.62	.....	.....	.....
San Jacinto ..	1.46	.....	1.15	.....	2.15	.....	0.35	.....	1.45	.....	1.40	.....	0.40	.....	0.95	.....	0.30	.....	0.10	.....	0.62	.....	0.95	.....	11.28	.....
Squaw Valley ..	.....	.....	.....	.....	.....	.....	.....	.....	1.46	.....	1.59	.....	T.	.....	0.18	.....	1.12	.....	T.	.....	0.69	.....	2.28	.....	.....	.....
Tecoma ..	2.00	+1.14	1.20	+0.69	1.10	+0.68	1.30	+0.68	1.97	+1.36	1.28	+0.71	0.71	+0.39	1.45	+1.31	0.69	+0.39	0.20	0.20	1.32	1.05	0.42	-0.12	13.64	18.38
Wells ..	3.50	+1.98	1.40	+0.42	3.54	+2.47	.....	.....	1.56	+0.67	.....	.....	.....	.....	0.23	+0.01	0.00	0.24	.....	.....	0.40	-0.52	1.20	-0.13	.....	.....
Winnemucca ..	2.18	+1.07	0.91	+0.02	1.38	+0.42	0.88	+0.04	1.45	+0.48	0.80	+0.21	0.06	-0.12	0.45	+0.37	0.44	+0.11	T.	0.43	0.67	-0.22	1.25	+0.18	10.50	+2.13
<b>EASTERN SECTION.</b>																										
Ely ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.00	+1.85	0.73	+0.16	0.12	0.57	1.02	+0.20	1.00	-0.58	.....	.....
Hamilton ..	.....	.....	.....	.....	.....	.....	.....	2.62	.....	1.71	.....	0.99	.....	.....	3.21	.....	0.76	.....	1.03	.....	.....	.....	4.60	.....	.....	.....
<b>CENTRAL SECTION.</b>																										
Austin ..	0.31	-1.10	.....	.....	.....	.....	2.56	+1.28	2.50	+0.82	1.28	+0.50	0.23	-0.28	0.97	+0.51	0.60	+0.23	0.30	-0.16	1.41	+0.84	1.83	+0.20	.....	.....
Enreka ..	.....	.....	.....	.....	.....	.....	1.26	.....	2.59	.....	1.21	.....	1.27	.....	0.65	.....	0.53	.....	0.66	.....	1.24	.....	2.49	.....	.....	.....
Potts ..	0.81	+0.03	0.45	-0.53	1.25	+0.42	0.50	-0.34	0.48	-1.27	0.30	+0.20	2.22	+1.40	0.10	-0.53	0.15	+0.07	0.15	+0.06	0.15	-0.26	0.34	-0.28	6.87	-1.03
<b>WESTERN SECTION.</b>																										
Carson City ..	5.75	+3.19	1.66	+0.17	1.70	+0.37	0.97	+0.10	1.08	+0.47	0.35	-0.08	0.17	0.00	0.10	-0.03	0.19	-0.09	0.02	+0.38	1.14	-0.36	4.24	+1.68	17.37	+5.04
Carson Dam ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.13	.....	0.10	.....	0.36	.....	T.	.....	0.34	.....	0.94	.....	.....	.....
Fallon ..	.....	.....	.....	.....	.....	.....	0.76	.....	0.72	.....	0.57	.....	0.01	.....	T.	.....	0.29	.....	T.	.....	0.44	.....	1.56	.....	.....	.....
Gardnerville ..	3.10	.....	0.87	.....	0.81	.....	1.75	.....	0.30	.....	T.	.....	0.40	.....	0.20	.....	0.03	.....	0.00	.....	1.10	.....	4.55	.....	13.11	.....
Hazen ..	0.21	.....	.....	.....	0.27	.....	0.86	.....	0.70	.....	0.19	.....	0.12	.....	0.03	.....	0.38	.....	T.	.....	0.44	.....	1.24	.....	.....	.....
Leeville ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.26	.....	0.00	.....	0.37	.....	0.70	.....	.....	.....
Lewers' Ranch ..	14.33	+10.15	3.90	+0.62	4.43	+1.38	1.88	-0.31	2.75	+0.95	0.65	+0.20	0.38	+0.18	0.07	-0.19	0.38	-0.43	0.00	-1.18	3.11	+0.02	7.90	+3.49	39.78	+14.88
Reno ..	3.55	-2.04	0.45	-0.65	0.70	-0.02	0.78	+0.34	1.02	+0.51	0.26	+0.06	0.67	+0.58	0.15	-0.04	0.20	+0.06	0.08	-0.16	0.76	+0.13	2.43	+1.43	11.05	+4.32
Soda Lake ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.05	.....	.....	.....	0.12	.....	1.12	.....	.....	.....
Wabuska ..	0.58	.....	0.12	.....	T.	.....	1.05	.....	0.90	.....	0.30	.....	0.65	.....	T.	.....	0.30	.....	T.	.....	0.10	.....	1.12	.....	5.12	.....
Wadsworth ..	2.28	+1.50	0.00	-0.54	0.17	-0.14	.....	.....	.....	.....	0.00	-0.20	1.67	+1.45	0.00	-0.10	0.02	-0.16	0.00	-0.57	0.45	+0.11	0.80	+0.26	.....	.....
<b>SOUTHERN SECTION.</b>																										
Columbia ..	.....	.....	0.59	.....	0.80	.....	1.22	.....	0.76	.....	0.10	.....	1.20	.....	1.53	.....	0.03	.....	.....	.....	.....	.....	0.50	.....	.....	.....
Geyser ..	1.05	.....	0.75	.....	3.84	.....	1.86	.....	1.82	.....	0.17	.....	0.58	.....	4.03	.....	0.60	.....	0.00	.....	1.28	.....	2.16	.....	19.04	.....
Logan ..	.....	.....	.....	.....	.....	.....	.....	.....	T.	.....	0.00	.....	1.41	.....	0.76	.....	0.34	.....	0.00	.....	0.58	.....	1.13	.....	.....	.....
McAfee's Ranch ..	T.	.....	0.50	.....	0.50	.....	1.75	.....	0.22	.....	0.71	.....	.....	.....	1.30	.....	0.00	.....	0.18	.....	1.35	.....	1.38	.....	.....	.....
Morey ..	1.92	.....	1.36	.....	6.16	.....	1.64	.....	2.01	.....	0.70	.....	2.18	.....	.....	.....	0.17	.....	.....	.....	.....	.....	.....	.....	.....	.....
Palmetto ..	0.48	-1.09	3.11	+1.43	5.19	+2.96	4.33	+3.17	3.41	+1.90	0.34	-0.26	4.58	+3.43	3.48	+1.98	T.	+0.50	0.10	-0.40	5.60	+4.88	7.31	+5.84	37.96	+23.34
Pioche ..	0.92	.....	1.19	.....	2.92	.....	2.89	.....	0.89	.....	0.24	.....	1.86	.....	3.33	.....	0.63	.....	T.	.....	1.67	.....	2.61	.....	19.15	.....
Tonopah ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.55	.....	0.08	.....	0.11	.....	0.69	.....	1.83	.....	.....	.....



CHART II.—SHOWING LOCATION OF OBSERVING AND FORECAST DISTRIBUTING STATIONS.

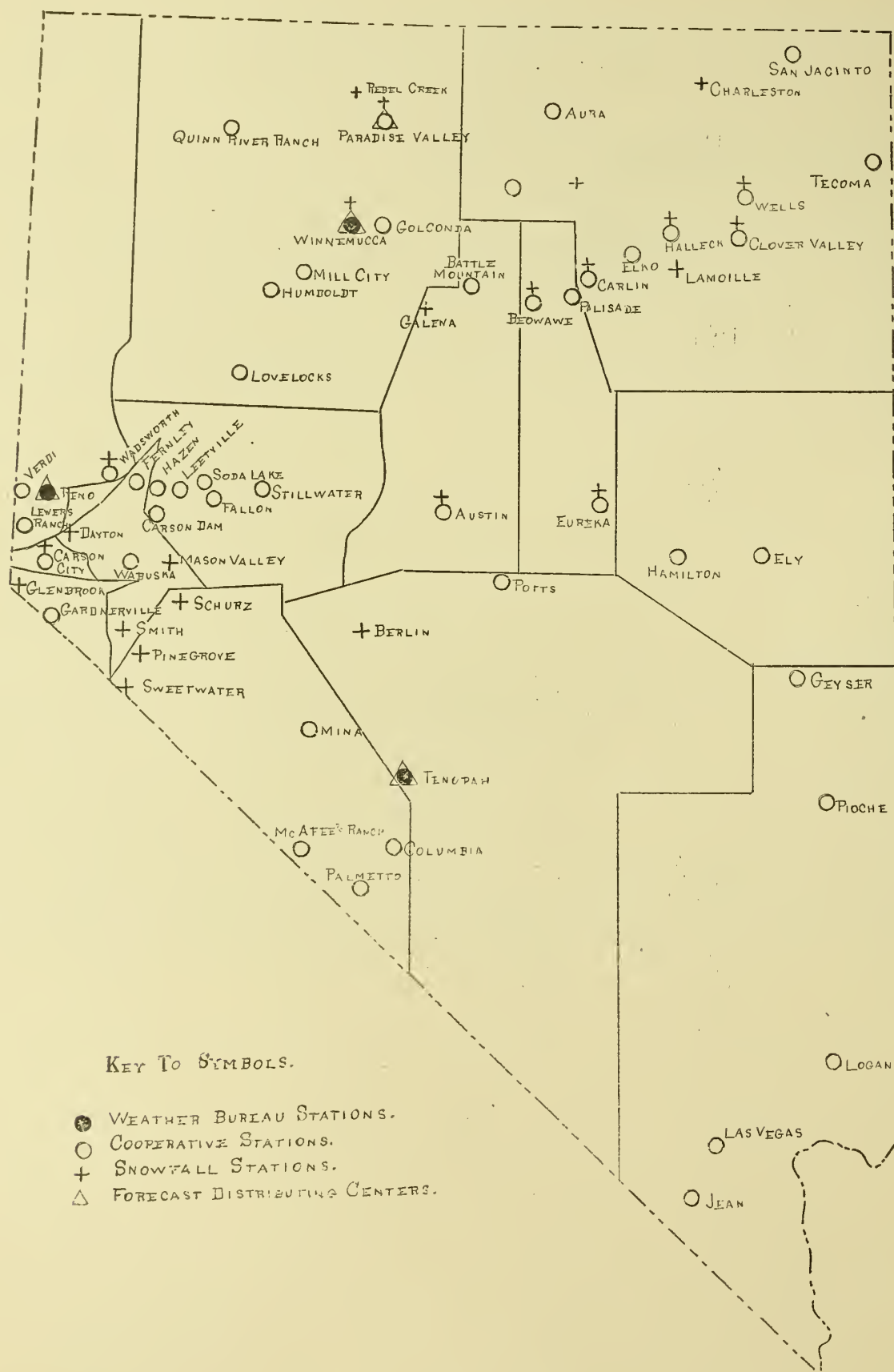
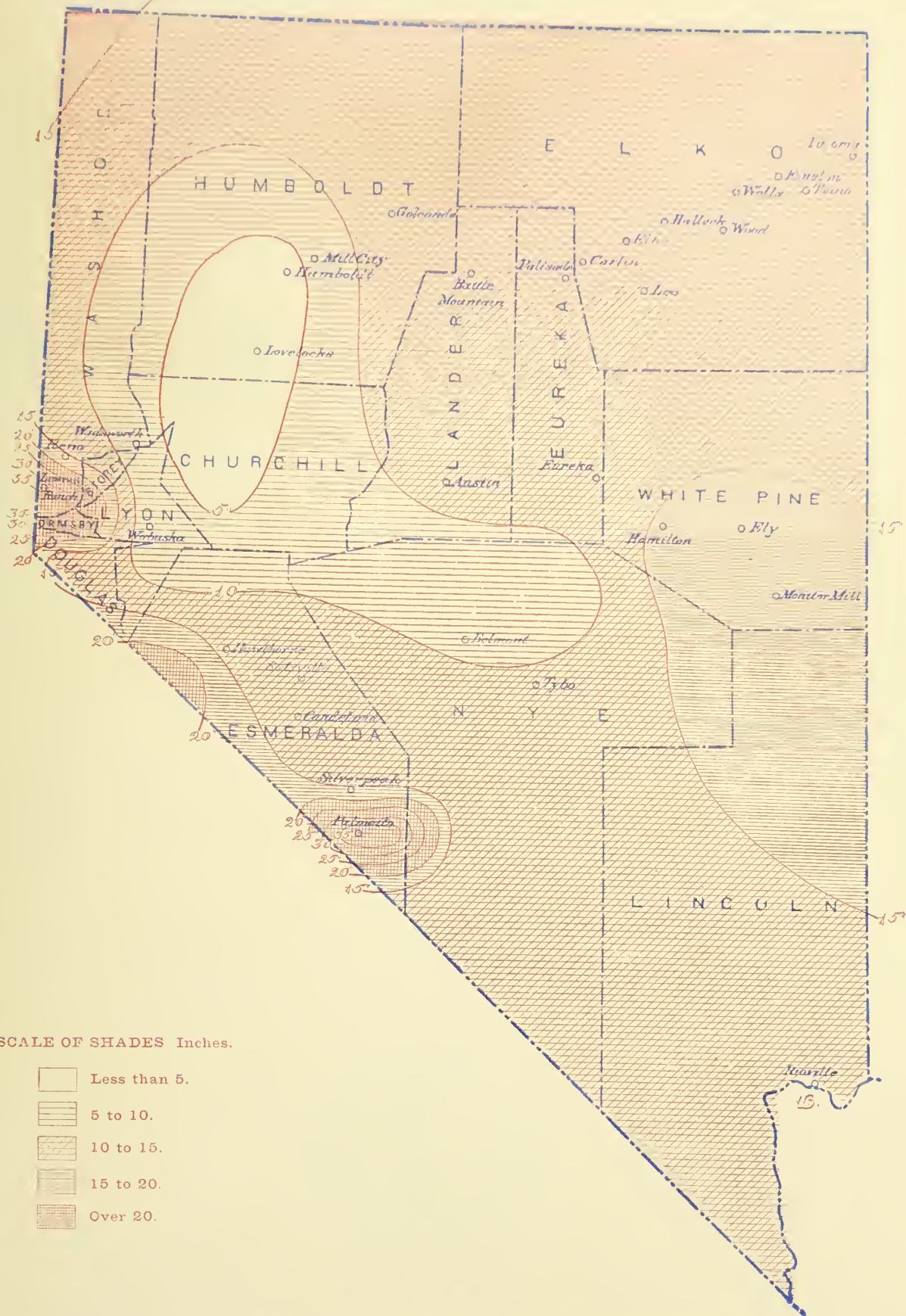




CHART III. TOTAL PRECIPITATION FOR THE YEAR 1900





COOPERATIVE OBSERVERS.

Station	County	Observer	Station	County	Observer
Aura .....	Elko.....	E. J. Clark	Lewers' Ranch.....	Washoe.....	Mrs. Ross Lewers
Austin .....	Lander.....	Dr. W. H. Heinzmann	Logan .....	Lincoln.....	Charles Arney
Battle Mountain.....	Lander.....	Agent So. Pac. Co.	Lovelock .....	Humboldt.....	G. S. Webb
Beowawe .....	Eureka.....	Agent So. Pac. Co.	McAfee's Ranch .....	Esmeralda.....	G. A. McAfee
Carlin .....	Elko.....	Agent So. Pac. Co.	Mill City .....	Humboldt.....	Agent So. Pac. Co.
Carson City .....	Ormsby.....	C. W. Friend	Mina .....	Esmeralda.....	E. Stanton
Carson Dam .....	Churchill.....	J. M. Heizer	Palisade .....	Eureka.....	George H. Kenyon
Clover Valley.....	Elko.....	A. H. Wiseman	Palmetto .....	Esmeralda.....	William Oothout, Jr.
Columbia .....	Esmeralda.....	W. W. Thompson	Paradise Valley.....	Humboldt.....	J. D. Bradshaw
Elko.....	Elko.....	Agent So. Pac. Co.	Pioche .....	Lincoln.....	A. A. Carman
Ely .....	White Pine.....	Allen C. Bragg	Potts .....	Nye.....	Miss Mamie Potts
Eureka .....	Eureka.....	Clay Simms	Quinn River Ranch.....	Humboldt.....	F. M. Payne
Fallon .....	Churchill.....	F. C. Sawin	Reno .....	Washoe.....	U. S. Weather Bureau
Fernley .....	Lyon.....	A. J. Rankin	San Jacinto .....	Elko.....	Moses Jones
Gardnerville.....	Douglas.....	Lawrence Ezell	Soda Lake .....	Churchill.....	Sam Hiller
Geyser .....	Lincoln.....	A. D. Campbell	Squaw Valley .....	Elko.....	James Cooper
Gileonda .....	Humboldt.....	James Buckley	Stillwater .....	Churchill.....	E. J. Freeman
Halleck .....	Elko.....	Agent So. Pac. Co.	Tecoma .....	Elko.....	Agent So. Pac. Co.
Hamilton .....	White Pine.....	Mrs. L. C. Muir	Tonopah .....	Nye.....	U. S. Weather Bureau
Hazen .....	Churchill.....	P. H. Moulton	Verdi .....	Washoe.....	C. G. Sebring
Humboldt .....	Humboldt.....	Agent So. Pac. Co.	Wabuska .....	Lyon.....	J. G. Young
Jean .....	Lincoln.....	E. J. Foster	Wadsworth.....	Washoe.....	J. O. Howard
Las Vegas.....	Lincoln.....	F. J. Foster	Wells .....	Elko.....	Phil S. Triplett
Leetville .....	Churchill.....	W. F. Bartz	Winnemucca .....	Humboldt.....	U. S. Weather Bureau

SNOWFALL OBSERVERS.

Station	County	Observer	Station	County	Observer
Austin .....	Lander .....	Dr. W. H. Heinzmann	Marmol.....	Washoe.....	C. B. Derby
Beowawe .....	Eureka.....	Agent So. Pac. Co.	Mason Valley .....	Lyon.....	J. G. Young
Berlin .....	Nye.....	Thomas K. Stevens	Paradise Valley .....	Humboldt.....	J. D. Bradshaw
Carlin .....	Elko.....	Agent So. Pac. Co.	Pinegrove .....	Esmeralda.....	
Carson City .....	Ormsby.....	C. W. Friend	Rebel Creek .....	Humboldt.....	R. McLeran
Charleston.....	Elko.....	Charles E. Pierson	Schurz .....	Esmeralda.....	M. E. Leavitt
Clover Valley.....	Elko.....	A. H. Wiseman	Smith .....	Lyon.....	C. M. Carter
Dayton .....	Lyon.....	Thomas P. Mack	Sweetwater.....	Esmeralda.....	W. H. Roach
Eureka .....	Eureka.....	Clay Simms	Tuscarora .....	Elko.....	W. J. Plumb
Galena .....	Lander.....	W. G. Moore	Wadsworth.....	Washoe.....	J. O. Howard
Glenbrook.....	Douglas.....	A. C. McCleary	Wells .....	Elko.....	Phil S. Triplett
Halleck .....	Elko.....	Agent So. Pac. Co.	Winnemucca .....	Humboldt.....	U. S. Weather Bureau
Lamoille.....	Elko.....	J. Lindsey			

FORECAST DISTRIBUTORS AND DISPLAYMEN.

Station	By Mail	By Telephone	Distributor	Station	By Mail	By Telephone	Distributor
Paradise Valley .....	.....	1	Postmaster	Tonopah .....	4	.....	Weather Bureau
Reno .....	65	.....	Weather Bureau	Winnemucca.....	7	1	Weather Bureau



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ack

U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR JANUARY, 1907.

NEVADA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

IN COOPERATION WITH THE

NEVADA STATE WEATHER SERVICE

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

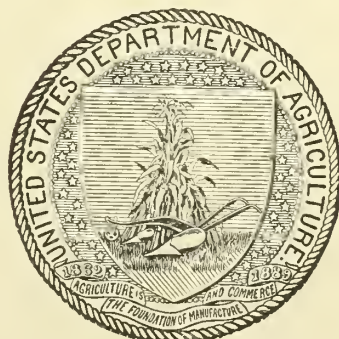
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

HARRY O. GEREN

SECTION DIRECTOR

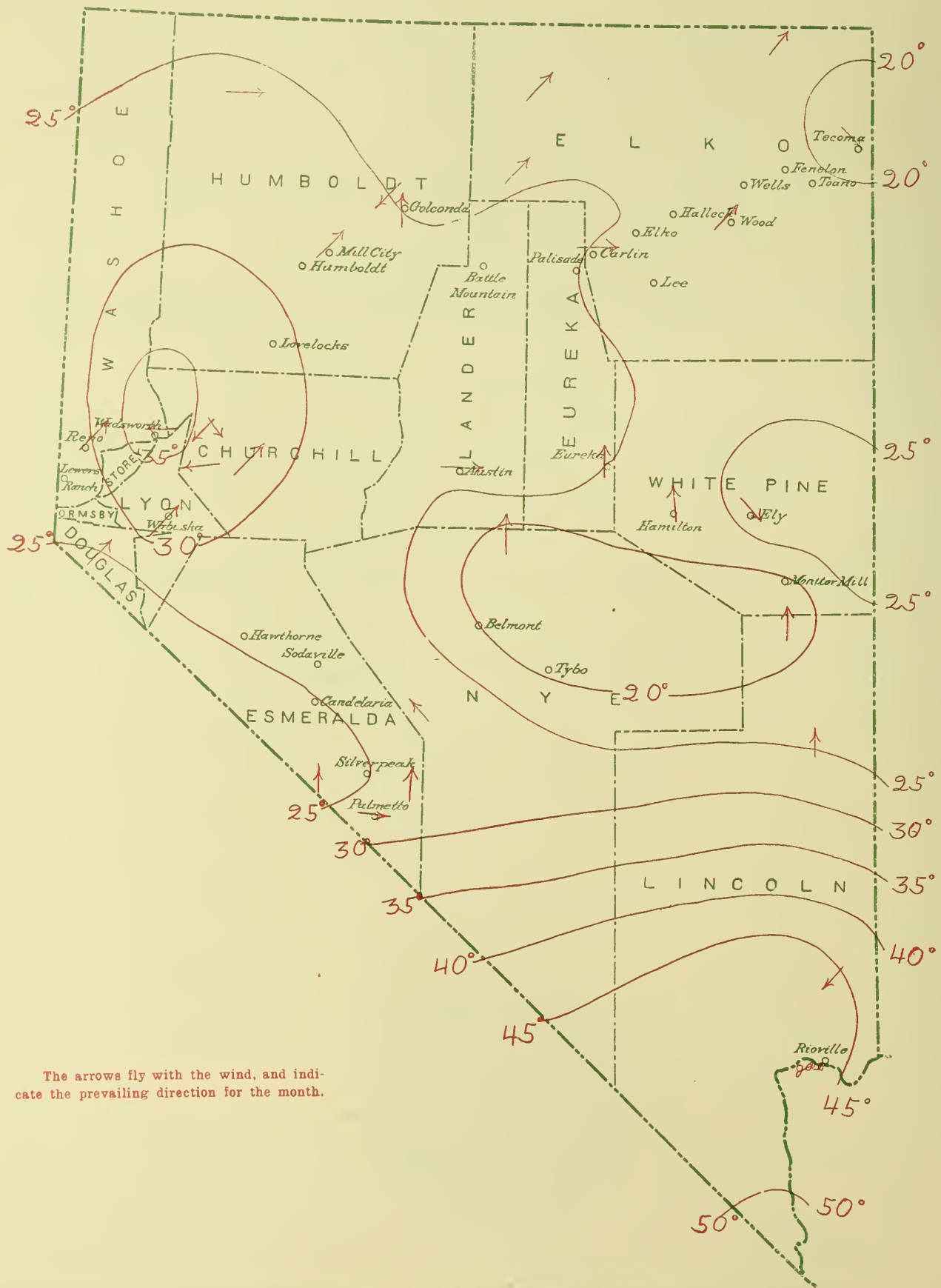


CARSON CITY, NEVADA:

March 23, 1907



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR JANUARY, 1907.





U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**  
 OF THE  
**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,  
 HARRY O. GEREN, Section Director.

VOL. XXI. RENO, NEVADA, JANUARY, 1907. No. 1.

**GENERAL SUMMARY.**

**Pressure.**

The mean pressure for the State, reduced to sea level, was 30.08 inches. The highest during the month was 30.60 inches, at Tonopah, on the 20th, and the lowest was 29.54 inches, at Reno, on the 6th.

**Temperature.**

The mean temperature for the State was 27.0°, which is 1.9° less than the normal for the month, and 1.7° lower than the mean for the corresponding month of 1906. The mean temperature for the northern section was 25.2°; for the eastern section, 24.8°; for the central section, 24.4°; for the western section, 31.6°; and for the southern section, 27.1°. The highest monthly mean temperature was 45.6°, at Logan, Lincoln County. The lowest monthly mean temperature was 18.8°, at Tecoma, Elko County. The highest temperature was 73°, at Wadsworth, on the 31st. The lowest temperature was -28°, at Squaw Valley, Elko County, on the 16th. The absolute range of temperature for the State was 101°. The greatest daily range was 58°, at Squaw Valley, Elko County, on the 16th.

The warmest period of the month was from the 24th to the 31st, inclusive, most of the maximum temperatures for the month being recorded on the 27th, 28th, and 29th, with a few occurring on other dates. During the greater portion of the month, however, the temperature was below normal, the lowest temperatures being recorded about the 16th, as a rule. The coldest period was from the 13th to the 20th, inclusive.

**Precipitation.**

The average precipitation for the State was 2.22 inches, which is 0.93 inch above the normal for the month, and 0.09 inch less than the average for the corresponding month of 1906. The average precipitation for the northern section was 1.66 inches; for the eastern section, 3.55 inches; for the central section, 3.41 inches; for the western section, 1.99 inches; and for the southern section, 3.21 inches. The greatest monthly amount was 8.90 inches, at Palmetto, Esmeralda County. The least amount was 0.06 inch, at Carson Dam, Churchill County. The greatest amount recorded in any twenty-four hours was 6.00 inches, at Lewers' Ranch, Washoe County, on the 27th. The average number of rainy days was 7.

The precipitation was fairly well distributed throught the month. Snow fell at all stations, except Logan and Tonopah, the average amount for the State being 20.2 inches. The heaviest monthly amount at any station was 89.0 inches, at Palmetto.

**Wind.**

The prevailing direction of the wind was from the south-west. The total movement of the wind at Reno was 2,964 miles, at Tonopah it was 7,468 miles, and at Winnemucca it was 6,462 miles. The maximum velocity at Reno was 42 miles per hour, from the east, on the 4th. At Tonopah, the maximum velocity was 44 miles per hour, from the south-east, on the 8th, and at Winnemucca it was 36 miles per hour, from the southwest, on the 4th. The average hourly velocity for the State was 7.6 miles.

**Sunshine and Cloudiness.**

The average number of clear days was 8, partly cloudy 9, and cloudy days 14.

**COMPARATIVE DATA FOR JANUARY.**

Year.	Temperature.			Average precipitation.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1890 .....	20.4	73	-42	3.81	.....	.....	.....	.....	S
1891 .....	27.6	68	-25	0.21	2	.....	.....	.....	N
1892 .....	26.7	73	-25	0.53	4	.....	.....	.....	S
1893 .....	29.7	65	-28	1.23	4	.....	.....	.....	S
1894 .....	28.0	70	-30	1.42	7	.....	.....	.....	SW
1895 .....	25.9	61	-30	2.42	7	10	7	14	SW
1896 .....	33.9	75	-26	1.80	5	9	8	14	SW
1897 .....	30.2	65	-15	0.92	.....	.....	.....	.....	.....
1898 .....	20.4	66	-28	0.69	4	12	9	10	N
1899 .....	31.8	65	-12	1.20	6	11	7	13	.....
1900 .....	35.7	71	-10	0.42	2	16	5	10	SW
1901 .....	30.1	75	-19	1.51	5	13	6	12	SW
1902 .....	28.4	69	-32	0.51	4	12	9	10	SW
1903 .....	32.0	72	-16	1.81	3	16	5	10	SW
1904 .....	27.4	71	-22	0.53	3	17	6	8	SW
1905 .....	34.5	72	-11	0.66	3	11	8	12	S
1906 .....	28.7	66	-15	2.31	4	13	6	12	SW
1907 .....	27.0	73	-28	2.22	7	8	9	14	SW
Means .....	28.8	75	-42	1.34	4	12	7	12	SW

**MISCELLANEOUS PHENOMENA.**

*Blizzard*—Geyser, 6th.

*Fog*—Clover Valley, 21st, 22d, 23d; Eureka, 28th; Geyser, 30th, 31st; Halleck, 17th, 23d, 30th; Hamilton, 12th, 13th, 14th, 15th, 16th, 17th, 18th; McAfee's Ranch, 11th; Palmetto, 10th, 11th, 12th, 28th; 29th, 30th; Pioche, 11th, 12th; Reno, 16th, 18th, 21st; 22d, 23d, 25th; Tonopah, 11th, 18th, 30th; Wabuska, 23d, 25th; Winnemucca, 25th.

*Hail*—Winnemucca, 12th.

*Halo, Lunar*—Eureka, 2d, 9th; Tonopah, 2d; Winnemucca, 19th, 29th, 30th.

*Halo, Solar*—Eureka, 29th.

*Haze*—Fallon, 25th.

*High Winds*—Austin, 14th; Carson Dam, 4th, 12th; Columbia, 1st, 4th, 5th, 6th, 7th, 8th, 12th, 14th; Eureka, 14th, 17th; Fallon, 3d, 4th; Hamilton, 4th, 6th; Hazen,



12th, 31st; Logan, 6th, 13th; Palmetto, 6th, 7th, 14th, 17th; Pioche, 14th; Potts, 2d, 3d, 4th, 7th, 8th, 12th, 14th, 15th; Reno, 4th, 12th; Tonopah, 8th; San Jacinto, 11th, 31st; Winnemucca, 4th.

*Sleet*—Aura, 4th, 27th; Columbia, 5th; Fallon, 5th, 9th; Squaw Valley, 24th.

## OBSERVERS' REMARKS.

GARDNERVILLE—Snow laid on the ground the entire month. The greatest depth reached was 13 inches. It was very cold during the middle part of the month, with very little wind.

LAWRENCE EZELL.

GEYSER—This was one of the worst months ever experienced in this section. It snowed almost continually up to the 19th. The snow is badly drifted. The outlook for stock is poor.

A. D. CAMPBELL.

HAMILTON—The worst storm for many years occurred on the 6th. The wind blew a gale and the snow drifted everywhere. Some drifts were 10 feet high.

MRS. L. C. MUIR.

WABUSKA—We had more fog and moist atmosphere than usual, but there was less precipitation than in January, 1906.

J. G. YOUNG.

## ERRATA.

November, 1906—Page 85: Austin—The mean temperature was published 33.0° and should be 33.4°; the lowest temperature and date was published 7° on the 29th and should be 4° on the 19th; Carson Dam—The mean temperature was published 39.8 and should be 38.9; the date of the lowest temperature was published 30th and should be 29th; Hazen—The mean temperature was published 37.3 and should be 37.4°; Page 86: Austin—The mean maximum temperature was published 41.8° and should be 42.8°; Hazen—The mean maximum temperature was published 50.9° and should be 51.0°.

December, 1906—Page 91: In the general summary the average precipitation for the State was published 1.81 inches and should be 1.91 inches. Page 93: Mill City—The lowest temperature and date was published 31° on the 16th and should be 16° on the 31st.

## DELAYED REPORTS.

Soda Lake (Churchill County) report for November, 1906: Mean temperature, 42.4°; maximum, 72°, on the 10th; minimum, 0°, on the 29th; greatest daily range, 44°. Total precipitation, 0.12 inch; greatest amount in any twenty-four hour period, 0.12 inch, on the 23d; total snowfall, 0.8 inch; number of days with 0.01 inch or more of precipitation, 1. The prevailing direction of the wind was from the west.

Verdi (Washoe County) report for January, 1907: Mean temperature, 25.7°; departure from the normal, -5.0°; maximum, 60°, on the 26th; minimum, 0°, on the 22d; greatest daily range, 39°. Total precipitation, 2.25 inches; departure

from the normal, -2.33 inches; greatest amount in any twenty-four hour period, 0.70 inch, on the 12th; total snowfall, 22.5 inches. Number of days with 0.01 inch or more of precipitation, 6.

## SNOWFALL IN THE MOUNTAINS.

The snowfall reports for January, from most of the stations, indicate that there is more than the average of snow in the mountains. This is especially true of the ranges in the drainage areas of the Truckee and the Walker Rivers. In the drainage area of the Humboldt River the amount of snow on the ground at the end of January was very small in the valleys, but averaged about 36 inches in the mountains. The valleys of the Truckee River drainage area were covered with snow to the average depth of about 30 inches, while in the mountains the average depth was about 65 inches. Near the head waters of the Carson and Walker Rivers the amount of snow averaged about 180 inches in the mountains, while in the valleys it was practically nothing. Over the drainage area of the Reese River the snow on the ground amounted to about 3 or 4 inches in the valleys and to about 36 inches in the mountains.

It is the general opinion of the observers that the snowfall, so far this season, is greater than the amount to the same date of last year, and that the resulting water-flow this year will be correspondingly greater and will exceed the usual amount.

TABLE OF SNOWFALL.

Station.	County.	Compared with average.	On ground January 31st.	
			At station.	At or near summit of mountains.
			Inches.	Inches.
<i>Humboldt River Drainage:</i>				
Beowawe .....	Lander .....	More .....	0	
Carlin .....	Elko .....	Average .....		
Charleston .....	Elko .....			
Clover Valley .....	Elko .....	Average .....	4	50
Halleek .....	Elko .....			
Lamoille .....	Elko .....			
Paradise Valley .....	Humboldt .....	Average .....	0	
Rebel Creek .....	Humboldt .....	More .....	2	36
Tuscarora .....	Elko .....			
Wells .....	Elko .....			
Winnemucca .....	Humboldt .....	More .....	1	30
<i>Truckee River Drainage:</i>				
Boca, Cal. ....	Nevada .....	More .....	42	48
Donner, Cal. ....	Nevada .....	More .....	48	
Floriston, Cal. ....	Nevada .....	More .....	16	60
Glenbrook .....	Douglas .....	More .....	30	60
Hobart Mills, Cal. ....	Nevada .....	More .....	34	75
Marmol .....	Washoe .....	Average .....	10	36
Tahoe, Cal. ....	Placer .....	More .....	57	90
Truckee, Cal. ....	Nevada .....	More .....	36	90
Wadsworth .....	Washoe .....	Average .....	0	
<i>Carson River Drainage:</i>				
Carson City .....	Ormsby .....			
Dayton .....	Lyon .....	Average .....	0	18
Markleville, Cal. ....	Alpine .....	More .....	15	170
Woodfords, Cal. ....	Alpine .....	Average .....	0	132
<i>Walker River Drainage:</i>				
Bodie, Cal. ....	Mono .....	More .....	60	180
Bridgeport, Cal. ....	Mono .....	Average .....	4	240
Mason Valley .....	Lyon .....	Less .....	0	36
Pinegrove .....	Esmeralda .....			
Schurz .....	Esmeralda .....	More .....	0	48
Smith .....	Lyon .....	More .....	0	24
Sweetwater .....	Esmeralda .....	More .....	1	54
Topaz, Cal. ....	Mono .....	More .....	0	24
<i>Reese River Drainage:</i>				
Austin .....	Lander .....	Average .....	0	
Berlin .....	Nye .....	More .....	4	30
Eureka .....	Eureka .....	More .....	4	42
Galena .....	Lander .....	Average .....	4	24



## CLIMATOLOGICAL DATA FOR JANUARY, 1907.

Stations.	Counties.	Elevation (feet)	Length of record (years)	Temperature (degrees Fahrenheit).							Precipitation (inches)				Sky				Prevailing direction of wind	Observer.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.		
Northern Section.																				
Aura	Elko			23.7		46	24	-8	16	32	6.70		1.80	67.0	12	5	9	17	sw	E. J. Clark
Battle Mountain	Lander	4,511	37	28.2	+0.8	65	31	8	21	37					4	6	21		Agent So. Pacific Co.	
Beowawe-3 a	Eureka	4,695	37	28.6	+2.6	51	31	0	16	18	1.10	+0.25	0.30	11.0	8	13	0	18		Agent So. Pacific Co.
Carlin-3	Elko	4,897	37	24.5	+4.1	40	4	-8	16	28	1.10	-0.02	0.10	11.0	5	3	17	11	w	Agent So. Pacific Co.
Clover Valley†	Elko	6,000	8	24.1		48	31	-10	16	33	1.22		0.42	15.0	8	6	11	14	sw	A. H. Wiseman
Elko-3	Elko	5,063	37	25.0	+1.5	55	9	0	23	45	1.25	+0.30	0.40	12.5	6	4	0	27		Agent So. Pacific Co.
Fenelon	Elko	6,128	1																Agent So. Pacific Co.	
Golconda	Humboldt	4,392	29	23.8	+5.9	63	29	-12	16	43	0.50	-0.12	0.30	5.0	2	6	0	25	s	Jas. Buckley
Halleck-3	Elko	5,229	35																Agent So. Pacific Co.	
Humboldt	Humboldt	4,236	36	28.2	+0.9	46	29	-12	19	37	1.30	+0.49	0.50	8.0	5	0	3	28		Agent So. Pacific Co.
Lovelock	Humboldt	3,977	16																G. S. Webb	
Mill City-3	Humboldt	4,225	19	28.5	+0.9	54	29	4	2	34	0.42	-0.15	0.20	4.0	6	3	15	13	sw	Agent So. Pacific Co.
Palisade	Eureka	4,821	26																Agent So. Pacific Co.	
Quinn River Ranch‡	Humboldt	4,850	6	25.4		52	28	0	22	42	1.10		0.25	8.3	10	11	11	9	w	F. M. Payne
San Jacinto	Elko		3	22.8		46	28	-26	16	43	1.70		0.60	17.0	6	12	7	12	sw	Moses Jones
Squaw Valley**-2	Elko	5,100	1	23.8		52	27	-28	16	58	1.13		0.18	11.1	14	12	0	19	sw	James Cooper
Tecoma	Elko	4,812	30	18.8	-0.9	45	28	-14	16	41	2.90		0.80	29.0	8	1	7	23	nw	Agent So. Pacific Co.
Wells	Elko	5,623	36																Phil S. Triplett	
Winnemucca	Humboldt	4,432	29	26.9	+1.7	50	28	-5	16	35	1.16	-0.40	0.44	16.5	15	7	13	11	ne	U. S. Weather Bureau
Means				25.2							1.66			21.1	9	6	7	18	sw	
Eastern Section.																				
Ely †	White Pine	6,000	18	25.7	+1.6	45	29	0	26	40	2.50	+1.47	1.50	25.0	4				nw	Allen C. Bragg
Hamilton	White Pine	7,977	1	23.8		50	30	-10	2	40	4.60		0.80	46.0	15	15	21	4	s	Mrs. L. C. Muir
Means				24.8							3.55			35.5	10	15	21	4		
Central Section.																				
Austin	Lander	6,594	19	27.4	+0.4	46	23	5	16	36	1.74	+0.33	0.58	18.5	6	5	10	16	w	Dr. W. H. Heinzmann
Eureka	Eureka	6,500	5	25.9		48	22	-3	2	38	4.70		3.00	50.0	8	7	11	13	s	Clay Simms
Potts a.	Nye	6,990	15	19.9	-4.1	41	29	-15	16	50	0.80	+0.02	0.30	10.5	5	5	12	14	s	Miss Mamie Potts
Means				24.4							3.41			29.7	6	6	11	14	s	
Western Section.																				
Carson City-2	Ormsby	4,660	28																	
Carson Dama	Churchill	4,032	1	30.8		58	28	5	16	33	0.06		0.04	T	2	1	20	10	e	J. M. Heizer
Fallon	Churchill	3,965	3	30.7		64	4	-2	16	47	0.39		0.20	5.2	4	6	13	12	sw	H. R. Southern
Fernley	Lyon																			A. J. Rankin
Gardnerville d	Douglas	4,830	9	24.4		50	27	1	10	39	3.55		1.35	21.0	6				sw	Lawrence Ezell
Hazen-2	Churchill	4,050	1	33.6		58	29	12	16	33	1.35		0.50	2.3	4				ne	P. H. Moulton
Leetville	Churchill	4,020	1	31.4		59	28	5	16	29	0.28		0.18	2.5	2	27	2	2	nw	W. F. Bartz
Lewers' Ranch‡	Washoe	5,500	20	29.3	-8.5	50	27	1	18	35	8.70	+4.74	6.00	27.0	4	1	18	12		Ross Lewers
Reuo	Washoe	4,532	37	28.2	-3.0	54	28	-4	16	33	1.28	+0.74	0.52	16.2	10	5	19	7	sw	Central Office
Soda Lake	Churchill	4,005	1																	Sam Hiller
Stillwater	Churchill	3,895	1																	E. J. Freeman
Wabuska	Lyon	4,347	5	31.2		60	28	1	1	40	0.08		0.08	0.8	1	9	21	1	sw	J. G. Young
Wadsworth	Washoe	4,077	36	39.7		73	31	2	16	51	0.95	+0.17	0.50	9.5	3	16	8	7	e	J. O. Howard
Means				31.6							1.99			8.9	4	9	15	7	sw	
Southern Section.																				
Columbia	Esmeralda	5,750	1	27.0		50	30	5	2	30	1.55		0.60	15.5	4	11	12	8	s	W. W. Thompson
Geyser	Lincoln		3	19.1		48	29	-22	2	51	4.74		1.40	39.5	12	8	5	18	s	A. D. Campbell
Las Vegas	Lincoln	2,074	6																	Agent Salt Lake Route
Logan	Lincoln	1,700	1	45.6		67	22	27	3	29	2.36		0.58	0.0	9	6	5	20	ne	Chas. Arney
McAfee's Ranch*	Esmeralda	4,835	4	20.5		48	31	-12	1	54	0.65		0.20	6.5	6	9	0	22	s	G. A. McAfee
Mina	Esmeralda	4,600	1																	T. G. Watterson
Palmetto	Esmeralda	6,780	18	25.4	-0.1	55	22	-8	2	42	8.90	+7.33	2.80	89.0	7	13	6	12	w	Wm. Oothout, Jr.
Pioche	Lincoln	6,100	3	25.0		43	28	-5	2	26	3.08		0.70	27.0	7	10	2	19	s	A. A. Carman
Tonopah	Nye	6,000	1	27.3		44	22	11	1	17	1.19		0.46	0.0	10	6	15	10	se	U. S. Weather Bureau
Means				27.1							3.21			33.9	8	9	6	16	s	
State Means and Extremes				27.0	-1.9	67	22	-28	16	58	2.22	+0.93		20.2	7	8	9	14	sw	

REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station indicates the number of days missing from the record; for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

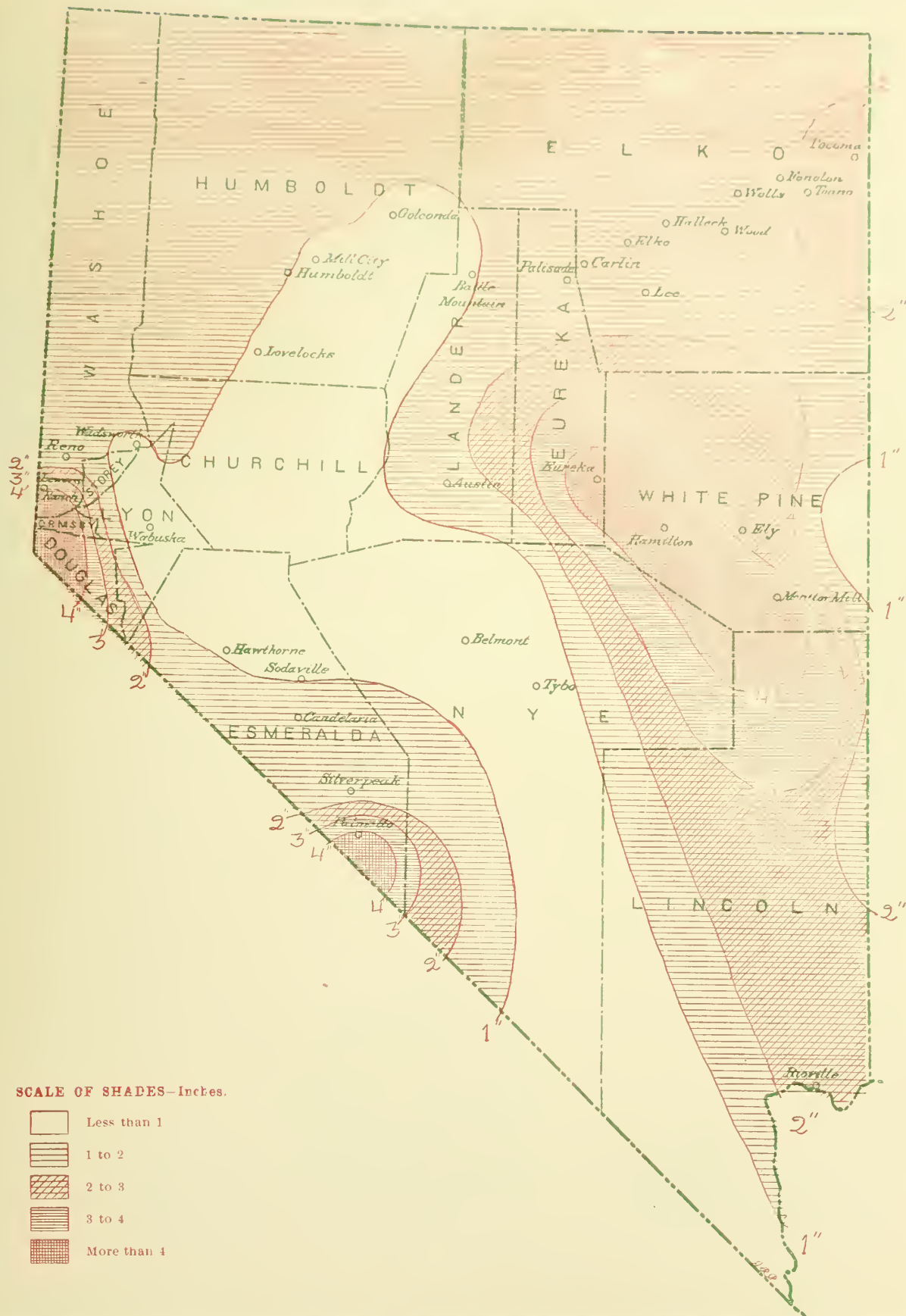
†Postoffice—Wells. ‡Postoffice—Franktown. §Postoffice—Amos. \*Postoffice—Dyer. ||Postoffice—Eureka. \*\*Postoffice—Golconda.



Stations.	Day of Month.																															Monthly		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Aura.....	Max. 25	32	33	36	31	32	34	30	34	40	30	29	24	25	22	24	26	25	26	37	41	39	40	46	40	35	35	42	43	11	36	33.3		
.....	Min. 2	10	14	26	17	6	6	7	12	17	21	20	6	-2	11	8	0	15	12	12	15	12	10	46	17	30	27	41	22	16	27	45		
Austin.....	Max. 20	25	33	33	25	27	27	55	33	34	35	35	26	25	25	22	27	25	25	44	42	42	46	42	37	27	21	31	26	45	26	35.9		
.....	Min. 10	7	19	23	13	13	19	11	19	19	11	11	5	11	5	5	9	11	11	22	21	23	23	23	31	45	26	54	54	60	65	18.9		
Battle Mountain.....	Max. 40	40	41	42	42	40	30	40	45	45	48	35	25	28	23	22	22	35	40	-43	45	46	11	33	15	25	25	55	28	30	15.1	11.4		
.....	Min. 15	15	15	16	16	15	10	15	12	12	11	10	10	11	10	20	20	10	10	10	8	10	11	11	10	15	32	26	28	30	30	15.4		
Arson City.....	Max. 27	36	51	53	42	42	35	45	.....	44	45	45	35	34	30	23	26	38	38	40	40	37	35	30	41	42	44	52	55	56	41.0	20.7		
.....	Min. 12	12	25	32	26	18	15	25	.....	28	26	29	14	26	19	5	5	5	11	14	14	12	26	27	27	25	29	36	21	24	32	40.7		
Arson Dam.....	Max. 29	23	43	42	42	38	32	35	.....	34	38	34	24	26	26	19	28	31	34	31	35	31	27	32	41	40	44	44	41	47	48	31.7		
.....	Min. 6	3	23	31	21	24	16	6	8	9	16	25	17	-3	17	-10	-1	18	15	7	6	-5	3	16	44	27	20	29	40	28	28	13.5		
Clover Valley.....	Max. 28	34	51	50	30	31	29	20	36	42	32	29	30	28	31	27	27	18	26	38	38	45	45	42	45	45	41	43	50	50	35.9	50		
.....	Min. 13	5	18	21	20	20	18	26	36	17	12	9	18	14	13	12	14	15	10	8	13	15	13	18	17	17	21	32	32	23	23	18		
Columbia.....	Max. 44	40	7	12	22	22	22	28	15	13	21	30	9	8	27	11	23	33	31	35	43	48	44	41	40	0	40	45	45	38	45	35.9	15.9	
.....	Min. 11	7	16	34	25	29	29	35	38	38	35	35	29	9	8	22	28	28	35	43	48	44	44	41	40	40	41	40	24	11	25	35.5	15.9	
Ely.....	Max. 22	26	31	34	29	29	28	35	39	42	42	42	40	37	33	30	26	30	38	39	44	45	38	39	40	33	32	30	32	35	34	45	35.5	15.9
.....	Min. 3	-3	17	17	23	17	17	28	35	38	35	35	29	9	8	22	28	28	35	43	48	44	44	41	40	40	41	40	24	11	25	35.5	15.9	
Eureka.....																																		



TOTAL PRECIPITATION FOR JANUARY 1907





## DAILY PRECIPITATION FOR JANUARY, 1907.

Stations.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Northern Section.																																	
Aura	T	1.80	0.60	T		0.50				T	0.10	1.20	0.60		0.30	0.10	T	0.30							T	0.40	0.50	0.20				T	6.76
Battle Mountain				0.15	0.10		0.05		0.30			0.10	0.10	0.10	0.20																		1.10
Beowawe				0.40	T				0.10	0.30		0.20	0.10	0.10												0.17		0.06				T	1.10
Carlin			0.17		T	0.42			0.10	0.30		0.23	0.03																				1.22
Glover Valley				0.40	0.10							0.20				0.20																	1.25
Elko		0.05																															0.50
Fenelon							0.20					0.30																					0.42
Golconda										0.03	0.05	0.01																					1.30
Halleck				0.10	0.10	0.10			0.40	0.40	0.20	0.50			0.10																		0.42
Humboldt																																	0.42
Lovelock						0.02						0.20	0.01	0.02												0.15			0.02				0.42
Mill City																																	1.87
Palisade																																	1.10
Paradise Valley		0.35	0.20	0.22						0.03	0.06															0.30	0.24	0.08	0.04				1.70
Quinn River Ranch			0.25				0.03					0.60		0.08			0.04								0.25	0.10	0.10	0.10					1.13
San Jacinto					0.20					0.08		0.14	0.06												0.03	0.18			0.05				2.90
San Jacinto		0.16	0.17	0.01	0.04		0.06			0.10	0.10	0.80		0.10	0.40																		0.01
Squaw Valley																																	2.90
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T indicates trace. \*Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, -  - J. G. MCCARTHY, SUPT.

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U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR FEBRUARY, 1907.

NEVADA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

IN COOPERATION WITH THE

NEVADA STATE WEATHER SERVICE

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

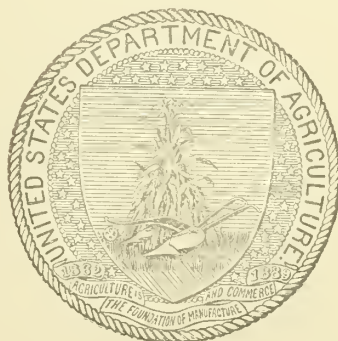
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

HARRY O. GEREN

SECTION DIRECTOR

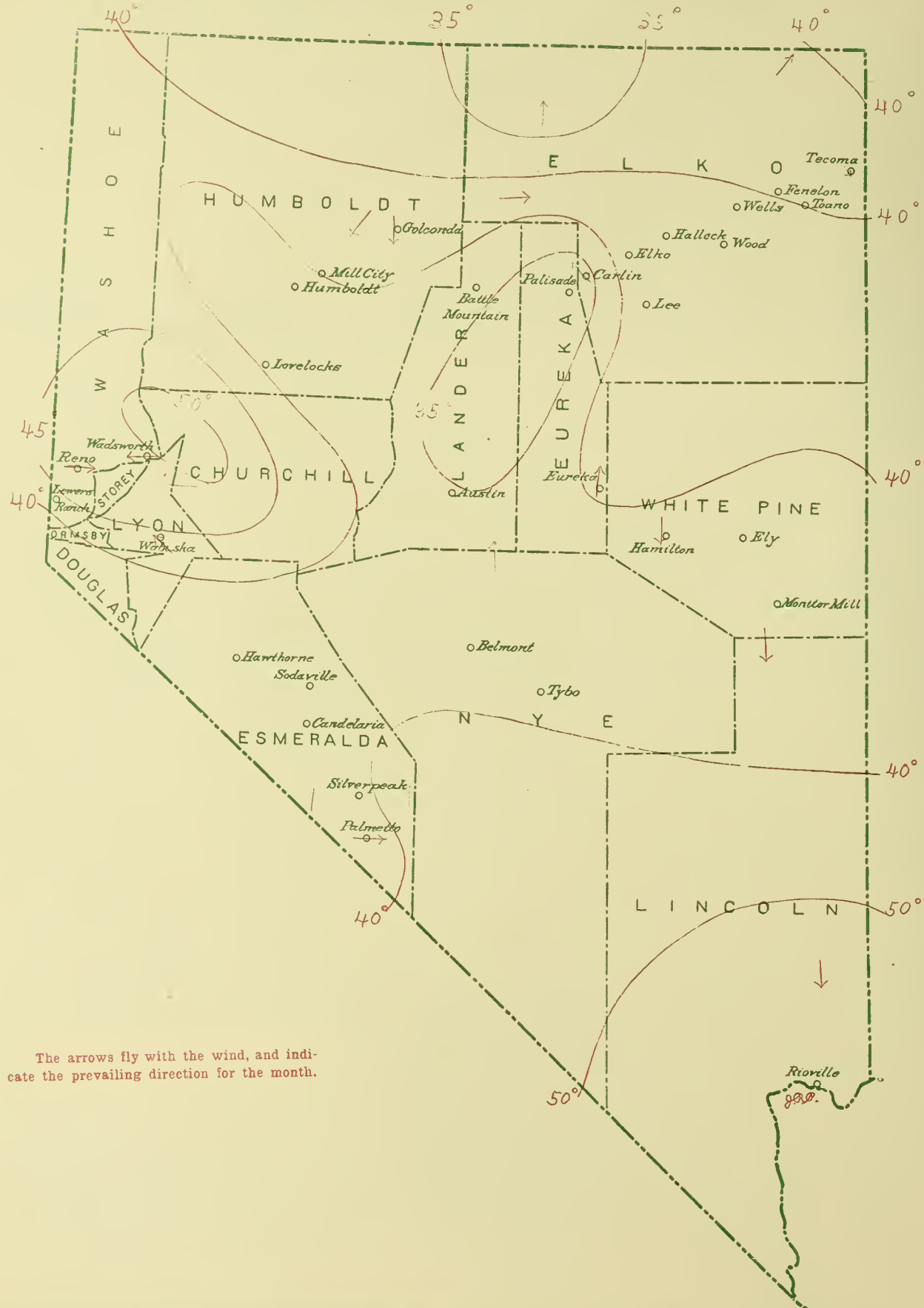


CARSON CITY, NEVADA:

April 18, 1907



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR FEBRUARY, 1907.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## NEVADA SECTION,

HARRY O. GEREN, Section Director.

VOL. XXI. RENO, NEVADA, FEBRUARY, 1907. No. 2.

## GENERAL SUMMARY.

## Pressure.

The mean pressure for the State, reduced to sea level, was 30.12 inches. The highest during the month was 30.40 inches, at Tonopah, on the 8th, and at Reno and Winnemucca, on the 19th, and the lowest was 29.66 inches, at Reno on the 21st, and at Winnemucca on the 22d.

## Temperature.

The mean temperature for the State was 41.9°, which is 9.0° higher than the normal for the month, and 5.5° higher than the mean of the corresponding month of 1906. The mean temperature for the northern section was 38.6°; for the eastern section, 37.8°; for the central section, 38.6°; for the western section, 46.6°; and for the southern section, 42.2°. The highest monthly mean temperature was 56.8°, at Logan, Lincoln County. The lowest monthly mean temperature was 34.5°, at Anra and Carlin, both in Elko County. The highest temperature was 78°, at Logan, Lincoln County, on the 14th and 15th, and the lowest was 9°, at McAfee's Ranch, Esmeralda County, on the 27th. The absolute range of temperature for the State was 69°. The greatest daily range of temperature was 50°, at McAfee's Ranch, on the 10th.

The temperature remained above normal during almost the entire month, and the mean for the State is the highest on record, exceeding the next highest, which is 37.8° in 1905, by 4.1°. The maximum temperatures for the month were recorded at nearly all stations during the first half of the month, while the minimum temperatures occurred, as a rule, during the last three days. The minimum for the State, 9° at McAfee's Ranch on the 27th, is higher than the minimum for any other year on record.

## Precipitation.

The average precipitation for the State was 1.28 inches, which is 0.03 inch below the normal for the month, and 0.25 inch greater than the average for the corresponding month of 1906. The average precipitation for the northern section was 1.89 inches; for the eastern section, 1.90 inches; for the central section, 0.72 inch; for the western section,

0.40 inch; and for the southern section 1.21 inches. The greatest monthly amount was 8.14 inches, at Clover Valley, Elko County. At Wadsworth, Washoe County, there was no precipitation during the month. The greatest amount recorded in any twenty-four hours was 3.65 inches, at Aura, Elko County, on the 4th. The average number of rainy days was 1.

The heaviest precipitation occurred in Elko County during the first four days of the month, especially at Aura, Clover Valley, Paradise Valley, and Squaw Valley. Over the remainder of the State, and during the rest of the month, the precipitation was rather light and scattered, and fell mostly during the 16th and 17th, from the 21st to the 23d, inclusive, and on the 25th and 26th.

The snowfall averaged 1.7 inches for the State, which is less than usually falls during February. The heaviest fall for the month was 15.6 inches, at Aura, while a considerable number of stations did not have any.

## Wind.

The prevailing direction of the wind was north. The total movement at Reno was 3,959 miles; at Tonopah it was 5,745 miles, and at Winnemucca it was 5,321 miles. The maximum velocity at Reno for a five-minute period was 36 miles per hour, from the west, on the 3d. At Tonopah the maximum velocity was 34 miles per hour, from the northwest, on the 26th, while at Winnemucca the maximum velocity was 29 miles per hour, from the southwest, on the 1st. The average hourly velocity for the State was 7.9 miles.

## Sunshine and Cloudiness.

The average number of clear days was 11, partly cloudy 7, and cloudy 10.

## COMPARATIVE DATA FOR FEBRUARY.

Year.	Temperature.				Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.	Average precipitation.	With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1890.....	30.7	88	-41	1.55	.....	.....	.....	.....	s
1891.....	30.5	66	-19	2.39	7	.....	.....	.....	s
1892.....	33.4	65	-18	0.95	4	.....	.....	.....	s
1893.....	29.0	69	-40	1.43	5	.....	.....	.....	sw
1894.....	25.7	71	-41	1.92	6	.....	.....	.....	sw
1895.....	31.1	77	-35	1.23	4	13	6	9	N
1896.....	35.2	86	-12	2.00	2	16	8	5	w
1897.....	30.1	67	-22	2.00	.....	.....	.....	.....	.....
1898.....	36.9	79	-2	0.29	2	12	10	6	w
1899.....	33.3	73	-27	0.55	4	13	7	8	w
1900.....	35.3	76	-12	0.51	4	11	6	11	sw
1901.....	31.6	77	-27	2.61	8	7	5	16	sw
1902.....	36.4	75	-16	1.42	6	7	9	12	sw
1903.....	20.7	86	-32	0.56	3	17	5	6	N
1904.....	35.9	73	-15	2.48	7	9	7	13	sw
1905.....	37.8	80	-37	1.13	4	14	6	8	N
1906.....	36.4	69	+2	1.03	5	10	6	12	sw
1907.....	41.9	78	+9	1.28	4	11	7	10	N
Means.....	32.9	88	-41	1.31	5	12	7	9	sw



## MISCELLANEOUS PHENOMENA.

*Corona, Lunar*—Reno, 21st.

*Fog*—Columbia, 2d; Palmetto, 17th, 21st; Tonopah, 22d.

*Hail*—Tonopah, 22d; Winnemucca, 5th.

*Halos, Lunar*—Eureka, 20th; Fallon, 20th; Hamilton, 20th; Reno, 19th; Tonopah, 20th.

*High Winds*—Carson Dam, 1st, 2d, 3d, 4th, 5th, 26th, 27th, 28th; Columbia, 21st, 24th, 26th, 27th; Hamilton, 1st, 2d; Hazen, 1st, 2d, 4th, 5th, 27th; Palmetto, 26th, 27th; Potts, 21st, 24th, 28th; Reno, 1st, 2d, 3d, 25th; Tonopah, 26th; Winnemucca, 1st.

*Sleet*—Aurora, 2d; Palmetto, 22d; Winnemucca, 22d.

## OBSERVERS' REMARKS.

CLOVER VALLEY—This was an unusually warm February. The precipitation was very much above the average, and there is plenty of snow in the mountains.

A. H. WISEMAN.

GEYSER—The weather has been fair this month.

A. D. CAMPBELL.

PIOCHE—Railway tracks were washed out, and there has been no mail in or out of Pioche for the last ten days.

A. A. CARMAN.

WABUSKA—The weather during February was very moderate. There was very little wind.

J. G. YOUNG.

## CLIMATOLOGY OF ELY.

Ely is located near the center of White Pine County, in longitude 114° 57', latitude 39° 10', and has an elevation of 6,000 feet.

The warmest month is July, with a mean temperature of 67.0°, and the coldest month is January, with a mean temperature of 24.1°. The mean annual temperature is 43.9°.

The highest temperature recorded was 99° on July 26, 1890. The lowest temperature recorded was -27° on January 7, 1890, giving an absolute range of 126°. A freezing temperature has been recorded in every month of the year.

The year with the greatest precipitation was 1901, when 18.01 inches fell. The greatest monthly precipitation was 5.52 inches, in April, 1900. The average annual precipitation is 12.33 inches.

The following tables were compiled from records covering a period of fifteen consecutive years. The records from October, 1904, to August, 1906, are not available:

## Monthly and Annual Mean Temperatures.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1890	19	<b>36</b>	38	43	<b>55</b>	59	<b>71</b>	63	52	.....	37	26	45
1891	18	20	29	40	48	<b>52</b>	66	64	<b>50</b>	39	<b>24</b>	24	<b>40</b>
1892	22	34	30	.....	<b>41</b>	56	<b>62</b>	<b>60</b>	54	<b>38</b>	28	<b>34</b>	42
1893	23	27	34	39	50	60	66	63	53	44	34	30	44
1894	22	27	35	42	53	55	68	66	54	47	<b>40</b>	23	44
1895	22	27	31	43	52	57	65	66	55	44	30	<b>22</b>	43
1896	31	30	34	<b>37</b>	46	63	67	64	53	44	31	31	44
1897	26	23	<b>23</b>	42	<b>55</b>	<b>68</b>	63	65	53	40	35	23	43
1898	<b>17</b>	32	30	<b>48</b>	49	61	70	<b>70</b>	58	44	34	24	45
1899	26	29	35	45	48	60	70	61	<b>59</b>	41	37	23	44
1900	<b>32</b>	32	<b>41</b>	41	<b>55</b>	66	68	62	<b>50</b>	43	37	30	<b>46</b>
1901	25	30	34	41	54	60	<b>71</b>	66	55	47	39	30	<b>46</b>
1902	26	34	30	45	52	65	66	65	57	45	32	26	45
1903	28	<b>15</b>	33	42	49	62	66	68	57	<b>48</b>	<b>40</b>	.....	.....
1904	25	33	38	43	53	60	66	66	58	.....	.....	.....	.....
Means	24.1	28.7	32.9	42.2	50.7	60.3	67.0	64.6	55.2	43.4	34.1	26.6	43.9

Highest and lowest temperatures in boldface type.

## Monthly and Annual Precipitation.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1890	1.39	0.85	0.90	0.90	0.70	<b>0.00</b>	<b>T</b>	1.26	0.18	.....	<b>0.00</b>	0.61	.....
1891	0.65	1.34	1.30	2.47	<b>3.96</b>	<b>2.07</b>	0.74	0.75	<b>2.03</b>	0.10	0.30	2.30	<b>18.01</b>
1892	0.60	0.52	2.90	.....	1.10	0.68	0.13	<b>0.03</b>	<b>0.00</b>	0.06	0.54	0.13	.....
1893	1.30	0.60	2.60	1.50	0.58	<b>0.00</b>	0.30	0.85	<b>T</b>	<b>0.00</b>	0.35	1.06	<b>9.14</b>
1894	0.65	2.50	<b>4.30</b>	0.70	0.80	0.11	<b>1.65</b>	1.15	1.65	<b>0.00</b>	<b>0.00</b>	<b>3.15</b>	16.71
1895	<b>2.10</b>	2.40	1.65	1.85	2.65	0.25	0.27	0.65	0.35	0.80	1.60	0.20	14.77
1896	0.65	0.20	1.00	2.25	3.55	0.07	0.79	1.05	0.30	0.70	1.10	0.23	11.89
1897	1.20	<b>3.75</b>	2.65	0.75	1.35	0.15	0.80	0.55	0.04	<b>2.86</b>	1.85	1.25	17.20
1898	1.40	0.20	2.01	1.15	3.50	0.15	0.50	<b>2.85</b>	0.15	0.20	1.90	1.05	15.06
1899	2.05	0.80	1.90	<b>0.50</b>	0.95	0.95	0.61	1.50	0.16	2.08	0.50	1.35	13.35
1900	<b>0.20</b>	<b>0.18</b>	0.43	<b>5.52</b>	<b>0.18</b>	0.01	1.15	0.05	1.35	0.79	0.61	<b>T</b>	10.47
1901	1.10	1.40	0.60	1.20	0.85	0.36	0.36	2.44	0.50	1.53	0.45	0.72	11.51
1902	0.91	0.65	2.25	1.00	0.39	0.03	0.31	0.26	0.86	0.43	<b>2.40</b>	1.42	10.91
1903	0.75	0.40	<b>0.10</b>	1.16	2.18	0.18	<b>T</b>	0.18	1.10	0.55	0.36	.....	.....
1904	0.50	1.99	1.13	0.81	2.23	0.15	0.29	2.53	0.02	.....	.....	.....	.....
Means	1.03	1.19	1.71	1.55	1.66	0.34	0.53	1.07	0.58	0.78	0.85	1.04	12.33

Greatest and least precipitation in boldface type.

## Temperature Extremes.

Month.	Maximum.	Year.	Day.	Minimum.	Year.	Day.
January	66	1894	.....	-27	1890	7
February	60	1890*	.....	-23	1890	.....
March	68	1896	.....	-12	1897	20
April	77	1898	25	3	1901	7
May	85	1896†	.....	13	1892	.....
June	97	1900	20	21	1894	.....
July	99	1890	26	30	1897	2
August	96	1891	.....	25	1892	.....
September	91	1891	.....	15	1895	.....
October	78	1895	.....	3	1892	.....
November	69	1898	3	-16	1896	28
December	67	1898	4	-22	1892	.....

\*Also in 1902, 17th day. †Also in 1897, 30th day, and in 1902, 28th day.



## CLIMATOLOGICAL DATA FOR FEBRUARY, 1907.

Stations.	Counties.	Elevation (feet).	Length of record in years.	Temperature (degree Fahrenheit)							Precipitation (inches)										Remarks.
				Mean.	Deviation from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Area.	Total for station (the normal).	Greatest for 24 hours.	Total for month.	Number of days.	N.	N. E.	N. W.	S.		
Northern Section.																					
Aura	Elko		0	31.5		50	11	13	28	27	8.03		3.65	15.6	13	5	9	14	N	E. J. Carl.	
Battle Mountain	Lander	4,511	37					27	10		0.03	-0.71	0.03	T	1	17	2	9		Agent So. Pacific Co.	
Beowawe-3	Eureka	1,635	37								0.30	0.11	0.30	3.0	1					Agent So. Pacific Co.	
Carlin-3	Elko	1,897	37	34.5	+5.9	47	8	25	9	18	0.19	-0.76	0.07	0.0	1	11	12	5	SE	Agent So. Pacific Co.	
Clover Valley†	Elko	6,000	8					19	28		8.11		2.12	0.0	10	13	7	8		A. H. Whelan	
Elko-3	Elko	5,063	37	41.2	+13.9	70	20	30	7	38	0.81	+0.09	0.25	0.0	4	10	0	18		Agent So. Pacific Co.	
Golconda	Humboldt	4,392	29					26	26		1.25	+0.69	1.25	0.0	1	8	2	18	S	Agent So. Pacific Co.	
Hallock-3	Elko	5,229	35																		
Humboldt	Humboldt	4,236	36	35.4	+0.8	60	13	23	2	28	0.30	-0.50	0.30	0.0	1	7	3	18		Agent So. Pacific Co.	
Lovelock	Humboldt	3,977	16																		
Mill City-3	Humboldt	4,225	19	41.3	+7.3	64	14	26	27	28	0.13	-0.29	0.05	0.0	4	8	12	8	SE	Agent So. Pacific Co.	
Palisade	Eureka	4,821	26																		
Quinn River Ranch*	Humboldt	4,850	6																		
San Jacinto	Elko		3	38.1		56	8	15	28	35	0.90		0.40	T	10	8	7	13	SW	Moses Jones	
Squaw Valley**-2 a	Elko	5,100	1	40.6		63	5	20	26	38	2.79		0.67		9	10	4	14	W	James Cooper	
Tecoma	Elko	4,812	30	38.0	+9.9	58	20	20	1	33	0.43	-0.08	0.40	4.0	3	15	1	12	NW	Agent So. Pacific Co.	
Wells	Elko	5,623	36																		
Winnemucca	Humboldt	4,432	29	43.8	+10.6	63	8	24	27	35	1.32	+0.39	0.54	0.3	10	10	5	13	NE	U. S. Weather Bureau	
Means				38.6							1.9			1.8	5	10	5	13	SE		
Eastern Section.																					
Ely	White Pine	6,000	18																		
Hamilton	White Pine	7,977	1	37.8		62	8	15	1	41	1.90		0.50	10.0	8	16	2	10	N	Mrs. L. C. Muir	
Means				37.8							1.90			10.0	8	16	2	10	N		
Central Section.																					
Austin	Lander	6,594	19																		
Eureka	Eureka	6,500	5	40.4		58	8	20	27	29	0.78		0.30	3.5	7	7	7	14	S	Clay Simms	
Potts	Nye	6,990	15	36.8	+10.4	54	5	15	26	31	0.65	-0.33	0.30	0.0	5	5	9	14	S	Miss Mamie Potts	
Means				38.6							0.72			1.8	6	6	8	14	S		
Western Section.																					
Carson City-2	Ormsby	4,660	28																		
Carson Dam††	Churchill	4,032	1	46.2		67	10	26	27	34	T		T	T	0	12	5	11	W	J. M. Heizer	
Fallon	Churchill	3,965	3	45.4		72	10	22	8	49	0.30		0.25	T	2	22	4	2		H. R. Southern	
Fernley e	Lyon		0	46.2		67	10	24	12	41	0.05		0.04	0.0	2	3	14	6	NW	A. J. Rankin	
Gardnerville	Douglas	4,830	9																		
Hazen b-2	Churchill	4,050	1	50.2		69	5	27	27	29	0.09		0.05	0.0	3	19	0	9	NE	P. H. Moulton	
Leetville	Churchill	4,020	1																		
Lewers' Ranch†	Washoe	5,500	20	45.9	+11.6	69	9	18	27	36	2.45	-2.24	2.30	T	2	8	8	12		Ross Lewers	
Reno	Washoe	4,532	37	45.4	+9.9	69	10	20	27	36	0.13	-1.35	0.13	T	1	10	10	8	W	Central Office	
Soda Lake	Churchill	4,005	1																		
Stillwater	Churchill	3,895	1																		
Wabuska	Lyon	4,347	5	43.7		68	5	19	27	41	0.15		0.15	0.0	1	10	17	1	SW	J. G. Young	
Wadsworth	Washoe	4,077	36	49.7	+14.9	72	4	21	27	41	0.00	-0.54	0.00	0.0	0	25	2	1	E	J. O. Howard	
Means				46.6							0.40			T	1	14	8	6	W		
Southern Section.																					
Columbia	Esmeralda	5,750	1	43.8		64	14	22	28	33	0.82		0.41	T	3	13	11	4	S	Will W. Thompson	
Geyser	Lincoln		3	35.6		59	15	14	11	40	0.99		0.66	3.5	3	12	4	12	N	A. D. Campbell	
Las Vegas	Lincoln	2,074	0																		
Logan	Lincoln	1,700	1	56.8		78	14	33	28	36	0.95		0.58	0.0	3	6	11	11	N	Chas. Arney	
McAfee's Ranch*	Esmeralda	4,835	4	37.3		65	4	9	27	50	2.00		2.00	T	1	16	1	11	N	G. A. McAfee	
Mina	Esmeralda	4,600	1																		
Palmetto	Esmeralda	6,780	18	39.2	+7.3	63	5	16	28	34	1.90	+0.22	0.80	5.0	3	10	11	7	W	Wm. Oothout, Jr.	
Pioche	Lincoln	6,100	3	39.5		59	13	17	28	32	1.39		0.65	5.0	4	7	2	19		A. A. Carman	
Tonopah	Nye	6,000	1	42.9		57	4	21	27	21	0.41		0.23	0.5	4	11	14	3	SE	U. S. Weather Bureau	
Means				42.2							1.21			2.0	3	11	8	9	N		
State Means and Extremes.				41.9	+9.0	78	14	9	27	50	1.28	-0.03		1.7	4	11	7	10	N		

REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station indicates the number of days missing from the record; for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

†Postoffice—Wells. †Postoffice—Franktown. ‡Postoffice—Amos. \*Postoffice—Dyer. †Postoffice—Eureka. \*\*Postoffice—Golconda. ††Postoffice—Hazen.

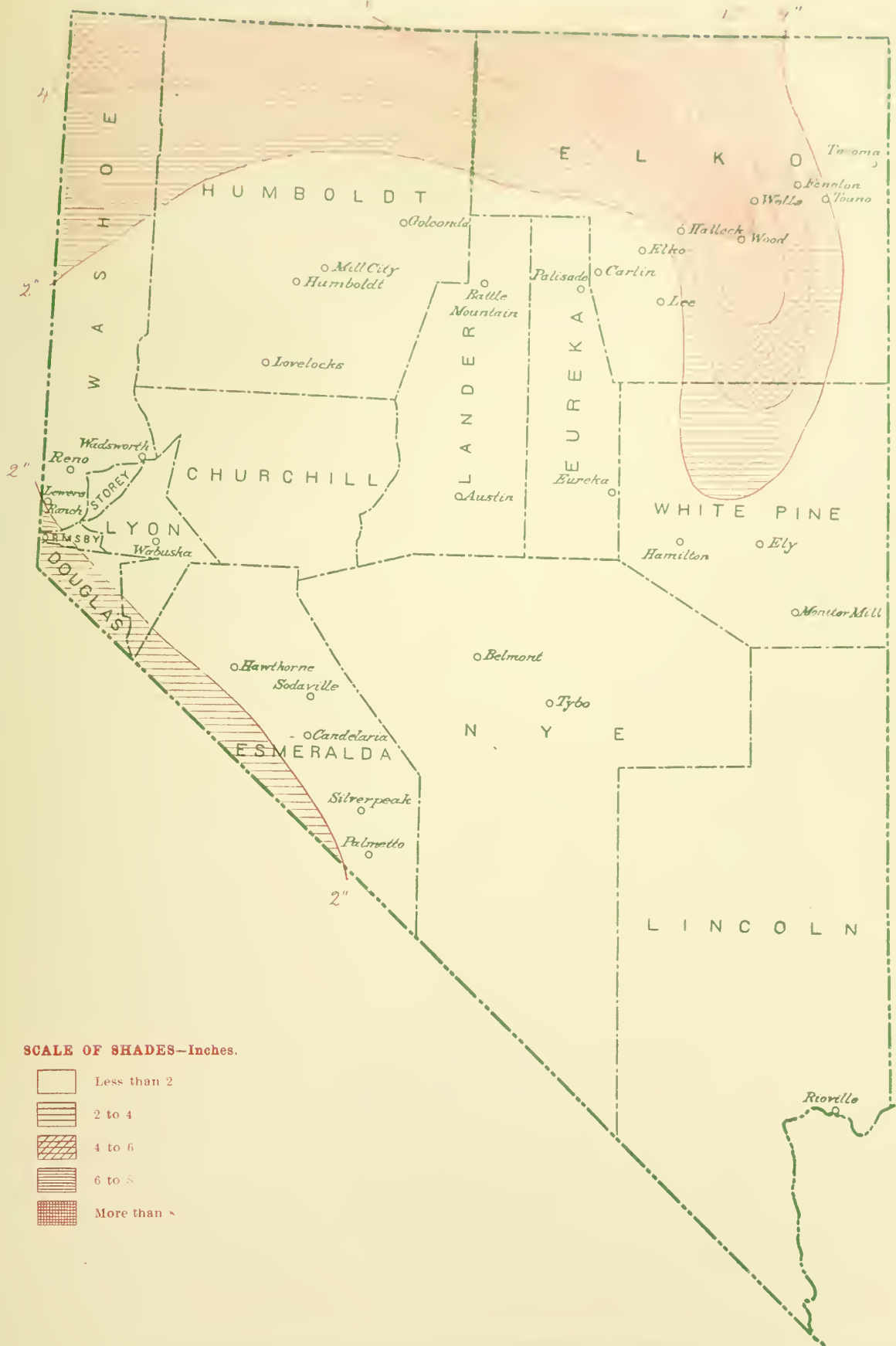


DAILY MAXIMUM AND MINIMUM TEMPERATURES FOR FEBRUARY, 1907.

Stations.	Day of Month.																															Monthly means.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Aura.....	Max. 36	40	36	40	43	43	44	47	43	47	50	47	49	48	45	49	43	45	44	50	44	38	42	42	42	41	32	36	32			42.7
Austin.....	Min. 22	32	32	32	35	22	20	25	28	27	26	20	22	23	25	26	34	34	32	29	27	32	28	25	29	16	20	13			26.3	
Battle Mountain.....	Max. ....																															
Carson City.....	Min. ....	40	38	40	33	33	33	32	29	27	30	28	30	30	30	28	33	31	28	29	28	28	27	28	29	35	37	37			31.8	
Carson Dam.....	Min. ....																															
Clover Valley.....	Max. 58	60	62	62	66	60	60	62	57	67	61	62	61	61	62	57	56	58	58	58	53	51	56	55	55	45	50	58			58.2	
Clover Valley.....	Min. 41	45	42	48	45	37	33	27	30	31	36	30	28	32	31	28	30	37	30	32	33	40	42	35	32	41	31	26	29			34.2
Columbia.....	Max. 42	44	43	45	46	37	38	57	59	59	57																					28.3
Columbia.....	Min. 35	35	35	35	42	33	25	28	27	25	25	23	25	26	24	26	34	28	28	28	27	36	33	51	51	56	59	45	55			56.2
Ely.....	Max. 41	42	53	61	63	63	59	60	61	60	61	58	63	64	63	58	54	60	61	61	52	56	61	60	61	54	49	58				31.3
Ely.....	Min. 31	32	31	31	34	34	30	30	31	34	29	27	33	33	32	34	32	29	30	31	38	37	30	34	37	27	23	22				
Eureka.....	Max. ....																															50.0
Eureka.....	Min. 50	53	44	49	56	51	54	58	56	53	53	54	58	58	55	56	45	45	54	54	45	41	48	50	49	35	35	42				30.9
Fallon.....	Max. 31	36	30	39	37	30	28	34	31	36	37	28	29	28	28	37	32	33	25	28	35	33	32	29	33	23	20	21				60.6
Fernley.....	Max. 60	62																														30.2
Fernley.....	Min. 34	34		39	37	32	26	22	30	23	22	26	31	29	33	28																60.1
Gardnerville.....	Max. ....																															32.2
Gardnerville.....	Min. ....																															
Geyser.....	Max. 40	42	40	50	55	51	49	52	50	51	54	56	57	58	59	52	43	52	55	57	58	45	50	53	53	40	40	42				50.1
Geyser.....	Min. 19	20	25	30	25	18	17	15	16	25	14	16	18	19	22	23	28	20	19	24	28	30	25	29	24	20	15	18				21.2
Golconda.....	Max. ....																															
Golconda.....	Min. 37	38	40	48	44	36	32	33	30	36	30	32	29	30	30	31	35	30	30	32	35	40	39	30	31	26	34	32				33.9
Hamilton.....	Max. 50	55	55	55	60	60	60	62	62	60	55	60	58	60	61	45	40	50	55	50	50	55	50	50	50	40	35	30				32.4
Hamilton.....	Min. 15	25	30	35	35	30	26	24	25	20	23	22	22	20	20	20	20	20	25	20	20	25	20	25	20	20	20	15				23.3
Hazen.....	Max. 59	61	60	60	69	64	60	64	69	68	62	61	61	63	62	61	58	59	60	60	57	58	53	58	58	50	50	58				69.1
Humboldt.....	Min. 37																															40.4
Humboldt.....	Max. ....																															
Leetville.....	Min. ....																															
Lewers' Ranch.....	Min. ....																															
Lewers' Ranch.....	Max. 46	49	49	56	59	61	62	62	69	67	64	61	62	63	64	64	65	61	62	63	49	50	60	60	55	45	46	50				57.8
Las Vegas.....	Min. 34	39	42	45	46	34	32	31	33	35	33	31	36	32	33	34	35	35	37	35	39	37	30	30	32	26	18	26				34.0
Las Vegas.....	Max. ....																															
Logan.....	Max. 60	61	65	67	69	75	72	73	74	75	74	73	75	78	78	72	65	65	73	73	66	64	68	71	71	67	63	62				69.6
Logan.....	Min. 43	42	47	42	43	43	50	43	38	47	45	38	40	42	42	45	41	46	40	42	44	50	56	56	44	43	46	47	33			44.1
Lovelock.....	Max. ....																															
Lovelock.....	Min. ....																															
McAfee's Ranch.....	Max. 55	54	54	65	64	60	59	61	61	62	61	60	59	62	62	52	52	57	57	60	55	51	56	54	60	56	52	55				57.7
McAfee's Ranch.....	Min. 22	21	23	20	18	15	13	14	18	12	12	18	16	13	13	19	15	14	14	19	25	17	13	27	27	16	9	10				16.9
Palmetto.....	Max. 55	52	54	58	63	54	56	58	60	55	58	58	58	58	56	38	48	52	55	56	45	45	50	40	40	55	35	50				51.9
Palmetto.....	Min. 25	24	26	31	30	25	25	26	26	30	23	25	30	26	31	30	26	31	30	25	26	35	30	25	25	21	22	16				26.4
Pioche.....	Max. 41	39	44	52	54	50	52	55	54	54	57	59	57	57	57	44	50	53	55	50	46	49	53	54	48	36	43					50.6
Pioche.....	Min. 27	29	26	32	32	29	26	32	32	32	26	25	28	30	29	28	29	25	26	32	33	35	26	25	32	29	22	17				28.4
Potts.....	Max. 48	49	46	51	54	51	50	52	54	51	50	54	54	50	49	45	46	51	51	46	45	44	48	49	42	34	45	43				48.3
Potts.....	Min. 28	32	29	36	32	26	22	22	27	26	29	23	25	24	21	30	26	20	20	23	32	30	29	22	24	15	20	15				25.3
Quinn River Ranch.....	Max. ....																															
Quinn River Ranch.....	Min. ....																															
Reno.....	Max. 56	57	56	58	60	59	63	59	58	69	65	64	61	64	61	55	51	59	60	61	48	51	57	57	46	39	48	54				57.0
Reno.....	Min. 43	45	46	47	42	33	30	30	30	36	29	29	34	31	31	35	39	31	28	34	29	29	29	29	33	28	20	26				33.8
San Jacinto.....	Max. 39	46	42	44	51	50	50	56	50	51	54	55	55	55	55	56	52	51	52	54	50	45	46	52	49	38	40					49.1
Squaw Valley.....	Min. 25	23	34	36	40	33	23	24	26	20	24	22	20	24	24	33	31	33														



TOTAL PRECIPITATION FOR FEBRUARY, 1907.





## DAILY PRECIPITATION FOR FEBRUARY, 1907.

Stations.	Day of Month.																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Section.																																
Aura	0.64	0.31	1.30	3.65	0.82												0.30	0.07	T		0.02	0.45	0.26		0.09	0.05	T	0.07			8.03	
Battle Mountain	T	T																			0.03					T					0.03	
Beowawe		0.05	0.07	0.05	0.02																	0.30										0.19
Carlin	1.35	2.42	0.81	2.40	0.52	0.08															0.10	0.30	0.13		T	0.03		T			8.11	
Clover Valley	0.25		0.25	0.25																	0.06		1.25								0.81	
Elko																															1.25	
Golconda																																0.30
Halleck																		0.30														
Humboldt																																
Lovelock																					0.05	0.03				0.04						0.13
Mill City			0.01																			0.13										1.90
Palisade																0.05																
Paradise Valley	0.45	0.45	0.75	0.07																												
Quinn River Ranch																	0.04	0.01														0.90
San Jacinto		0.02	0.01	0.40	0.08	0.07																0.18	0.04			0.05						2.79
Squaw Valley	0.32	0.48	0.67	0.50	0.10																0.10	0.50	0.05		0.07				T		0.43	
Tecoma	0.40		0.01																		T	0.02										
Wells																																
Winnemucca	0.51	0.27	0.25	0.02													T	0.05				0.08	0.25	0.01		0.02	0.02					1.32
Eastern Section.																																
Ely																																
Hamilton	T	T	0.50	0.50													T	0.10				0.10	0.20			0.10	0.30	0.10	T			1.90
Central Section.																																
Austin																																
Eureka		0.04	0.10	0.15																	0.10	0.30	0.02		0.07			T				0.78
Potts		0.05		0.30														T	0.05		0.10	0.15	T								0.65	
Western Section.																																
Carson City																					T	T										T
Carson Dam																					0.05	0.25					T				0.30	
Fallon																					0.04										0.05	
Fernley													0.01																			
Gardnerville																																0.09
Hazen																																
Leetville																					0.03	0.05				0.01						
Levers' Ranch																																
Reno	T	2.30	T														T	0.15								T	T					2.45
Soda Lake																					0.13											0.13
Stillwater																																0.15
Wabuska																	T				T	0.15										0.00
Wadsworth																																
Southern Section.																																
Columbia																	0.14															0.82
Geyser																																
Las Vegas																																
Logan																	0.12	0.58			T	0.25						T				0.95
McAfee's Ranch																					2.00						T					2.00
Mina																																1.90
Palmetto																	0.50	T			0.60	0.80					T		T			1.39
Pioche																	0.10	0.65			T	0.58	0.09				0.07					0.41
Tonopah																		0.06			0.07	0.18										

T indicates trace. \* Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, -  - J. G. MCCARTHY, SUPT.

1907



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U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR MARCH, 1907.

NEVADA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

IN COOPERATION WITH THE

NEVADA STATE WEATHER SERVICE

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

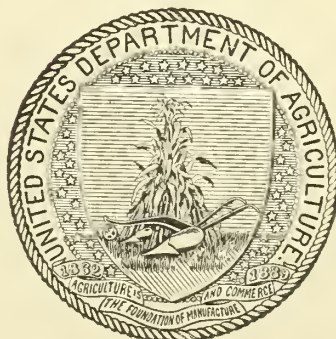
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

HARRY O. GEREN

SECTION DIRECTOR

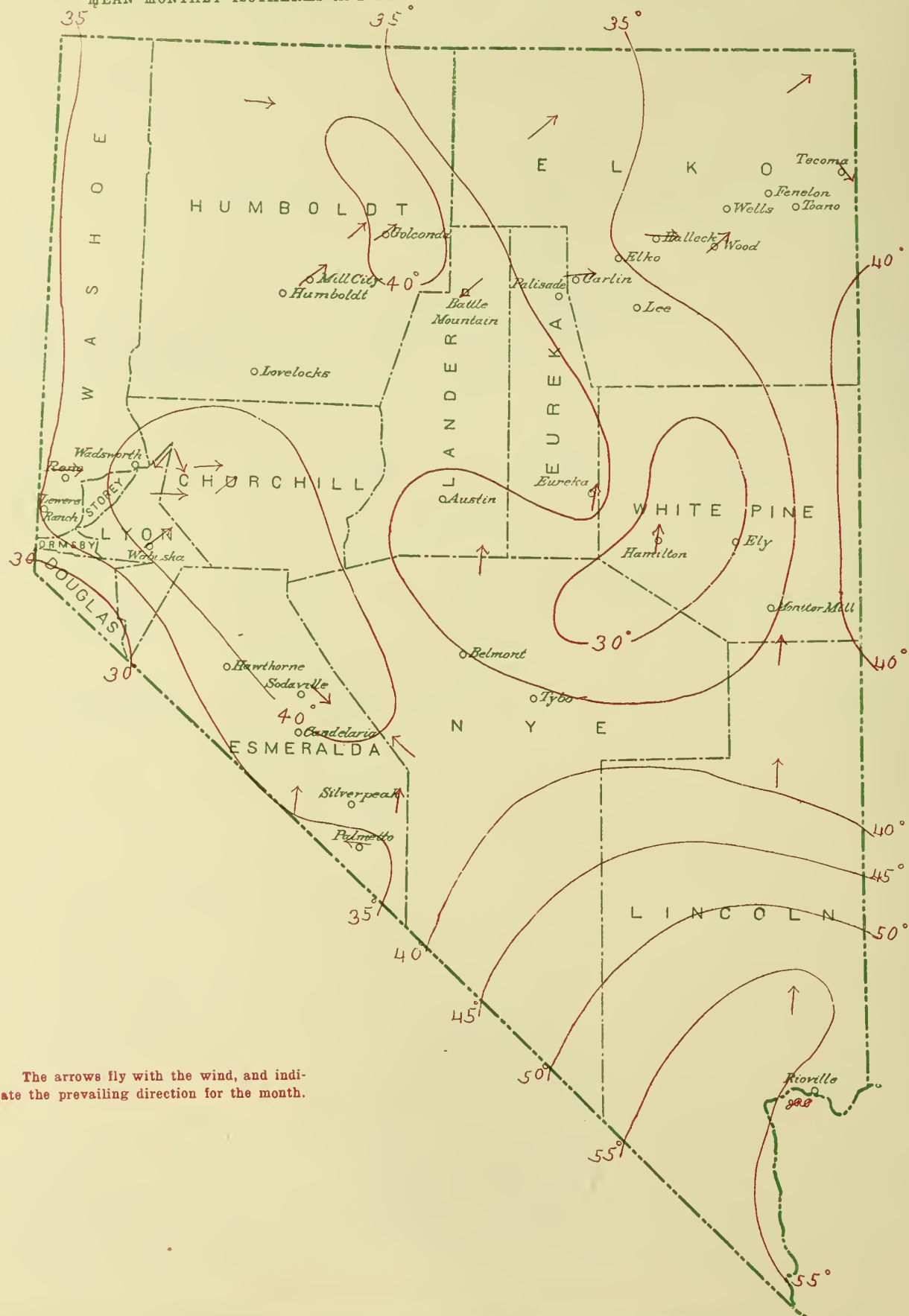


CARSON CITY, NEVADA:

May 22, 1907



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR MARCH, 1907.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**  
 OF THE  
**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,  
 HARRY O. GEREN, Section Director.

VOL. XXI. RENO, NEVADA, MARCH, 1907. No. 3.

**GENERAL SUMMARY.**

Pressure.

The mean pressure for the State, reduced to sea level, was 29.94 inches. The highest during the month was 30.32 inches, at Tonopah, on the 30th, and the lowest was 29.47 inches, at Winnemucca, on the 20th.

Temperature.

The mean temperature for the State was 38.3°, which is 0.3° lower than the normal for the month, and 0.2° lower than the mean of the corresponding month of 1906. The mean temperature for the northern section was 37.0°; for the eastern section, 26.4°; for the central section, 34.9°; for the western section, 40.3°; and for the southern section, 40.3°. The highest monthly mean temperature was 56.8°, at Logan, Lincoln County. The lowest monthly mean temperature was 26.4°, at Hamilton, White Pine County. The highest temperature was 83°, at Logan, Lincoln County, on the 31st, and the lowest was -10°, at Halleck, Elko County, on the 26th, and at Hamilton, White Pine County, on the 2d, making a range in temperature for the State of 93°. The greatest daily range in temperature at any station was 54°, on the 30th, at McAfee's Ranch, Esmeralda County.

The temperature was so nearly normal, in all respects, as to require but little comment. The maximum temperatures, in nearly all instances, were recorded on the 17th, 18th, 19th, 30th, or 31st, while the minimum temperatures occurred mostly on the 13th and 26th.

Precipitation.

The average precipitation for the State was 2.66 inches, which is 1.26 inches above the normal for the month, and 0.98 inch greater than the average for the corresponding month of 1906. The average precipitation for the northern section was 1.94 inches; for the eastern section, 4.70 inches; for the central section, 1.89 inches; for the western section, 3.79 inches; and for the southern section, 2.53 inches. The greatest monthly amount was 16.85 inches, at Lewers' Ranch, Washoe County, and the least monthly amount was 0.05 inch at Tecoma, Elko County. The greatest amount recorded in any twenty-four hours was 7.40 inches, on the 19th, at Lewers' Ranch, Washoe County. The average number of days with 0.01 inch or more of precipitation was 8.

The average precipitation for the State, for this month, is the greatest on record for March, as will be seen by an exam-

ination of the table of comparative State data. The amount exceeds that of the next largest by 0.76 inch, the next largest being in 1893 when the average for the State was 1.90 inches. At Reno the amount greatly exceeded that of any other March on record, while at Winnemucca it was the second greatest during any March in a record of thirty years. According to the State average there was more precipitation during March, 1907, than during any other month on record, with but two exceptions—December, 1889, with 1.09 inches, and January, 1890, with 3.81 inches.

Wind.

The prevailing direction of the wind was south. The total movement at Reno was 4,484 miles; at Tonopah it was 10,370 miles, and at Winnemucca it was 6,020 miles. The maximum velocity for a period of five minutes at Reno was at the rate of 44 miles per hour, southwest, on the 17th; at Tonopah it was 40 miles per hour, southeast, on the 20th, and at Winnemucca it was 47 miles per hour, southwest, on the 17th. The average velocity in miles per hour was 6.0 at Reno, 13.9 at Tonopah, and 8.1 at Winnemucca.

Sunshine and Cloudiness.

The average number of clear days was 6, partly cloudy days 10, and cloudy days, 15.

**COMPARATIVE STATE DATA FOR MARCH.**

Year.	Temperature.			Average precipita- tion.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1889.....	44.1	85	12	1.45	.....	.....	.....	.....	.....
1890.....	39.0	82	-15	1.71	.....	.....	.....	.....	s
1891.....	38.9	78	2	1.55	6	.....	.....	.....	sw
1892.....	40.3	78	-2	1.81	8	.....	.....	.....	w
1893.....	35.9	85	-21	1.90	7	.....	.....	.....	s
1894.....	38.4	88	-13	1.02	5	.....	.....	.....	sw
1895.....	37.7	80	23	0.82	4	14	9	8	w
1896.....	39.4	90	-18	1.15	.....	.....	.....	.....	.....
1897.....	31.5	80	-19	1.36	.....	.....	.....	.....	.....
1898.....	35.0	79	-10	0.63	4	14	9	8	w
1899.....	38.6	79	4	1.83	7	9	8	14	sw
1900.....	44.2	81	3	0.51	3	17	5	9	sw
1901.....	38.9	90	0	0.59	4	15	7	9	w
1902.....	35.2	69	0	1.47	6	11	8	12	sw
1903.....	38.7	90	-8	1.41	5	12	7	12	s
1904.....	39.7	80	0	1.69	8	8	8	15	sw
1905.....	41.8	82	3	1.43	6	12	6	13	sw
1906.....	38.5	83	-15	1.68	7	10	9	12	w
1907.....	38.3	83	-10	2.66	8	6	10	15	s
Means; extremes.....	38.6	90	-23	1.40	6	12	8	11	sw

**MISCELLANEOUS PHENOMENA.**

*Fog*—Clover Valley, 3d, 8th; Reno, 8th, 15th.

*Hail*—Columbia, 5th, 7th, 8th; Fallon, 11th; Fernley, 5th, 6th, 7th.

*Halos, Lunar*—Fallon, 24th; Winnemucca, 2d.

*Halos, Solar*—Eureka, 31st.

*High Winds*—Carson Dam, 17th, 18th; Clover Valley, 18th, 21st, 23d; Columbia, 1st, 2d, 3d, 10th, 11th, 12th, 18th, 21st, 22d, 23d, 24th; Eureka, 4th, 22d, 23d, 24th; Geyser, 23d, 24th; Halleck, 10th; Hamilton, 15th, 19th, 20th, 21st, 22d, 23d; Hazen, 17th, 18th, 22d, 23d, 24th; Leetville, 12th, 16th, 17th; Logan, 25th; Pioche, 18th, 19th, 20th, 21st, 22d, 23d,



24th; Potts, 1st, 2d, 3d, 4th, 8th, 9th, 10th, 15th, 16th, 17th, 18th, 19th, 20th, 21st, 22d, 23d, 24th, 25th; Reno, 11th, 17th, 18th, 19th, 23d, 24th; Tonopah, 20th; Wabuska, 17th, 18th, 20th, 21st, 22d, 23d, 24th; Winnemucca, 17th.

*Sleet*—Aurora, 7th, 20th; Columbia, 6th, 9th.

*Thunderstorm*—Aurora, 20th.

#### CLIMATOLOGY OF BATTLE MOUNTAIN, NEVADA.

Battle Mountain is located in the northern portion of Lander County, in latitude 40° 40' north and longitude 117° 5' west. Its elevation above sea level is 4,511 feet. The surrounding country is level, and there are no forests or bodies of water near.

The warmest month of the twelve is July, and the coldest is January. The mean temperature for the three winter months, December, January and February, is 30.5°, and of the three summer months, June, July and August, it is 72.0°. The warmest month on record is that of July, 1906, when the mean temperature was 83.2°, and the coldest month was that of January, 1898, with a mean temperature of 16.6°.

The wettest month of the twelve is February with an average of 0.82 inch of precipitation, while the driest is August with an average of 0.10 inch. The month during which the greatest amount of precipitation was ever recorded is that of February, 1901, with 3.70 inches. There were 77 months during which the monthly amount is recorded as zero, these months forming 19 per cent of the total number of months on record. There were eight years in which no rain fell during a period of three consecutive months. In 1896, during the four months from June to September, inclusive, no rain fell. The driest five-month and six-month periods occurred in 1880, when there was only a trace of rain in July and a trace in November, there being none in June, August, September and October. During this same year only 0.35 inch fell in May, this making a total of only 0.35 inch in seven consecutive months. In 1905 there was only 0.70 inch in eight consecutive months, and 1.10 inches in ten successive months. The wettest winter, considering December, January and February as constituting the winter months, was in 1887-88 when 4.92 inches of precipitation occurred, while the driest winter was that of 1898-99 when only 0.27 inch fell. Of the months of July, 51 per cent have no rain, of August 57 per cent, and of September 37 per cent.

#### Monthly and Annual Precipitation.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1870	0.90	0.74	0.67	0.05	0.30	0.77	0.00	0.00	0.00	0.30	0.59	0.13	4.45
1871	0.12	0.22	0.37	0.38	0.65	0.04	0.47	0.00	0.00	0.41	0.26	0.95	3.87
1872	0.00	0.20	0.43	1.00	1.19	1.00	0.50	0.00	1.31	0.01	0.02	0.83	6.49
1873	0.10	2.10	0.19	0.05	0.49	0.00	0.00	0.02	0.04	0.05	0.07	1.20	4.31
1874	0.95	1.56	1.07	0.21	0.40	0.00	0.25	0.80	0.00	1.38	0.65	0.15	7.42
1875	2.57	0.25	0.60	0.05	0.90	0.00	0.00	0.10	0.06	0.75	2.45	0.93	8.66
1876	0.40	0.30	1.05	0.57	0.24	0.27	0.53	0.00	0.69	0.53	1.21	0.12	5.82
1877	2.20	0.53	2.07	0.30	1.04	0.00	0.20	0.00	0.00	0.03	0.40	0.00	6.77
1878	0.29	1.02	0.44	0.64	2.17	1.24	0.00	0.90	0.15	0.31	0.23	0.00	7.39
1879	0.65	0.25	0.16	0.63	0.45	0.82	0.00	0.00	0.08	0.15	0.46	0.85	4.50
1880	0.08	0.90	0.67	0.59	0.35	0.00	T	0.00	0.00	0.00	T	2.07	4.66
1881	1.23	0.76	0.45	0.86	0.75	0.28	0.00	0.15	0.16	0.69	0.56	1.03	6.83

#### MONTHLY AND ANNUAL PRECIPITATION—Continued.

1882	1.58	0.70	2.10	1.27	0.55	0.83	0.08	0.00	1.33	1.08	0.15	0.30	9.97
1883	0.86	0.70	0.60	1.12	1.27	0.23	T	0.00	0.85	0.70	0.42	6.75	
1884	0.70	2.30	1.04	1.54	1.29	2.18	0.00	0.10	1.12	1.94	0.00	1.82	14.03
1885	0.55	1.48	0.16	2.20	0.61	0.44	0.00	0.33	0.00	0.00	0.72	0.91	7.40
1886	1.30	0.10	0.27	1.72	0.24	0.21	0.38	0.00	0.18	1.20	1.50	0.44	7.54
1887	0.73	1.15	0.30	1.24	0.14	0.50	0.12	0.18	0.30	0.00	0.10	1.50	6.26
1888	3.12	0.30	0.25	0.35	1.50	0.50	0.22	0.00	0.65	0.18	0.82	1.89	9.78
1889	0.60	0.00	1.16	0.45	0.64	0.23	0.00	0.00	0.00	1.55	0.00	1.04	5.67
1892	0.42	0.58	2.10	2.03	2.35	1.82	0.00	0.00	0.11	0.35	0.48	0.79	11.03
1893	0.55	0.10	0.73	1.18	0.12	0.10	0.30	0.00	0.25	0.05	0.25	0.10	3.73
1894	0.38	1.25	0.26	0.40	1.25	1.15	0.50	0.00	0.10	T	0.00	1.15	6.44
1895	0.95	1.65	0.10	0.30	0.50	0.00	0.15	0.00	0.10	0.00	0.37	0.92	5.04
1896	0.60	0.10	1.85	0.55	0.90	0.00	0.00	0.00	0.00	0.18	0.85	0.20	5.23
1897	0.69	1.66	0.54	0.36	0.35	1.22	0.00	0.00	T	0.50	0.18	0.65	6.15
1898	0.47	0.06	0.55	0.26	2.93	0.00	0.00	0.00	0.50	0.10	0.32	0.27	5.46
1899	T	T	2.23	0.20	0.50	1.25	T	0.65	0.00	T	0.00	0.75	5.58
1900	T	0.20	0.10	.....	0.64	.....	0.00	0.00	0.00	.....	.....	0.00	.....
1901	0.70	3.70	0.00	0.86	0.00	0.00	0.00	0.13	0.68	0.25	0.45	0.60	7.37
1902	0.40	0.68	0.85	.....	0.25	0.00	0.80	0.10	0.19	0.10	0.70	0.00	.....
1903	1.35	0.20	0.92	0.30	0.40	0.34	0.00	0.00	0.00	0.60	0.90	1.10	6.11
1904	1.10	1.72	0.60	0.50	0.75	T	T	1.17	1.55	T	T	7.39	.....
1905	T	0.40	0.28	T	0.12	T	0.00	0.15	0.10	0.05	1.00	0.70	2.80
1906	0.90	.....	.....	.....	0.45	0.00	T	0.00	T	0.50	.....	.....	.....
Means	0.78	0.82	0.74	0.69	0.77	0.47	0.13	0.10	0.26	0.44	0.50	0.70	6.40

\* Greatest and least precipitation in boldface type.

#### Monthly and Annual Mean Temperatures.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1878	29	32	42	47	55	70	76	76	59	46	38	23	49
1879	21	38	49	53	54	64	74	72	66	49	34	30	50
1880	31	28	.....	50	57	66	75	74	63	46	26	30	.....
1881	34	39	42	55	59	70	78	72	60	45	32	30	51
1882	20	20	33	44	58	66	81	75	61	55	33	32	48
1883	20	21	49	43	55	72	79	78	66	44	39	30	50
1884	27	21	40	46	62	66	74	77	59	47	38	34	49
1885	31	40	45	51	59	66	77	75	66	53	43	36	54
1886	32	40	38	47	63	69	76	75	58	43	27	34	50
1887	34	31	45	46	57	62	73	70	.....	50	38	28	.....
1888	19	39	41	54	57	64	76	76	65	49	39	34	51
1889	20	27	46	56	60	70	78	76	64	51	40	33	52
1890	18	34	44	55	.....	70	.....	.....	.....	.....	.....	.....	.....
1892	25	28	41	55	56	68	74	81	69	50	45	42	53
1893	26	31	42	47	57	70	78	73	62	55	38	39	52
1894	35	32	43	53	63	64	82	77	62	57	42	28	53
1895	27	28	42	55	62	67	71	71	58	49	48	27	50
1896	35	36	41	44	51	72	73	71	59	51	35	34	50
1897	30	28	28	45	54	59	67	72	58	45	40	28	46
1898	17	36	34	52	54	64	74	78	62	41	31	24	47
1899	28	31	42	50	53	66	78	70	66	44	39	25	49
1900	33	33	46	.....	.....	.....	.....	73	58	48	41	33	.....
1901	37	32	38	46	57	64	.....	70	60	56	45	.....	.....
1902	28	35	.....	60	68	70	72	63	53	39	34	.....	.....
1903	35	21	41	46	56	71	70	72	63	53	45	33	50
1904	30	37	42	52	.....	69	70	76	65	55	46	30	.....
1905	38	39	.....	.....	.....	74	74	70	53	41	22	.....	.....
1906	30	42	44	54	57	61	83	75	64	51	43	35	53
Means	28.2	32.1	41.5	49.8	57.3	66.8	75.2	74.1	62.5	49.6	38.7	31.1	50.6

Highest and lowest temperatures in boldface type.

#### Temperature Extremes, 1888 to 1906, Inclusive.

Month.	Maximum.	Year.	Day.	Minimum.	Year.	Day.
January	70	1901	4	-26	1888	.....
February	78	1905	28	-20	1903	13
March	80	1900	26	8	1898†	22
April	93	1904	14	15	1903	10
May	95	1894	.....	23	1893	.....
June	102	1902	22	25	1906	1†
July	107	1906	20	32	1903	7
August	108	1905	8	29	1899	22
September	104	1903	2	20	1902	26
October	96	1905	1*	8	1905	18
November	87	1905	6	-6	1896	27
December	72	1904	2	-16	1905	23

\* Also on the 4th day. † Also in 1906, 16th day. ‡ Also on the 6th day.



## CLIMATOLOGICAL DATA FOR MARCH, 1907.

Stations.	Counties.	Elevation (feet)	Length of record (years)	Temperature (degrees Fahrenheit).						Precipitation (inches)				Sky				Prevailing direction of wind	Observer		
				Mean.	Departure from the normal.	Highest.	Date	Lowest.	Date	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Number rainy days.	Number clear days.	Number partly cloudy days.			Number cloudy days.	
Northern Section.																					
Aura	Elko	.....	0	30.6	.....	56	31	1	26	30	6.18	.....	1.11	15.5	23	2	6	23	SW	E. J. Clark	
Battle Mountain	Lander	4,511	37	37.9	-3.0	58	1	20	9	31	0.61	-0.11	0.60	6.1	2	3	10	18	NE	Agent So. Pacific Co.	
Beowawe-3	Eureka	4,695	37	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Agent So. Pacific Co.	
Carlin-3	Elko	4,897	37	31.9	-3.6	42	7	-5	26	35	2.00	+1.10	0.70	16.0	4	2	11	18	W	Agent So. Pacific Co.	
Clover Valley†	Elko	6,000	8	37.8	.....	62	31	3	26	37	2.58	.....	0.55	12.0	8	1	8	19	SW	A. H. Wiseman	
Elko-3	Elko	5,063	37	37.0	+3.1	62	19	8	26	30	1.86	+1.14	0.80	13.6	7	5	0	26	W	Agent So. Pacific Co.	
Fenelon	Elko	6,128	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Agent So. Pacific Co.	
Golconda a	Humboldt	4,392	29	11.6	-0.9	67	31	20	13	32	1.52	+0.93	0.50	.....	4	4	8	19	SW	Agent So. Pacific Co.	
Hallock-3	Elko	5,229	35	.....	.....	60	17	-10	26	41	0.77	-0.04	0.30	7.7	5	1	3	24	W	Agent So. Pacific Co.	
Humboldt	Humboldt	4,236	36	41.3	-0.7	64	7	23	19	32	0.75	+0.13	0.40	.....	3	13	15	3	.....	Agent So. Pacific Co.	
Lovelock	Humboldt	3,977	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. S. Webb	
Mill City-3	Humboldt	4,225	19	36.1	-4.7	64	31	26	26	24	0.65	+0.03	0.03	6.0	4	2	11	18	SW	W. I. Birth	
Palisade	Eureka	4,821	26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Geo. H. Kenyon	
Quinn River Ranch*	Humboldt	4,850	6	39.2	.....	65	30	18	14	44	1.95	.....	0.40	.....	10	6	10	15	W	F. M. Payne	
San Jacinto	Elko	.....	3	37.0	.....	66	18	-5	26	49	2.40	.....	0.63	19.4	12	6	10	15	SW	Moses Jones	
Squaw Valley**-2	Elko	5,100	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	James Cooper	
Tecoma	Elko	4,812	30	37.5	-0.7	70	19	15	13	35	0.05	-0.47	0.03	T	2	0	2	29	NW	Agent So. Pacific Co.	
Wells	Elko	5,623	36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Phil S. Triplett	
Winnemucca	Humboldt	4,432	29	39.3	-0.3	66	31	16	13	28	2.65	+1.69	0.44	15.8	15	3	20	8	SW	U. S. Weather Bureau	
Eastern Section.		Means	.....	37.0	.....	.....	.....	.....	.....	.....	1.94	.....	.....	14.2	8	3	8	20	SW	.....	
Hamilton	White Pine	7,977	1	26.4	.....	50	17	-10	2	40	4.70	.....	1.00	47.0	14	9	22	0	S	Mrs. L. C. Muir	
McGill	White Pine	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. G. Perkins	
Central Section.		Means	.....	26.4	.....	.....	.....	.....	.....	.....	4.70	.....	1.00	47.0	14	9	22	0	S	.....	
Austin	Lander	6,594	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. W. H. Heinzmann	
Eureka	Eureka	6,500	5	36.6	.....	62	31	4	26	35	2.18	.....	0.28	19.0	9	3	8	20	S	Clay Simms	
Potts	Nye	6,990	15	33.2	+2.8	60	31	-4	13	42	1.60	+0.77	0.75	13.0	6	3	5	23	S	Miss Manie Potts	
Western Section.		Means	.....	34.9	.....	.....	.....	.....	.....	.....	1.89	.....	.....	16.0	8	3	6	22	S	.....	
Carson City-2	Ormsby	4,660	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Carson Dam††	Churchill	4,032	1	42.6	.....	70	31	21	11	37	.....	.....	.....	.....	.....	10	9	12	W	J. M. Heizer	
Fallone	Churchill	3,965	3	42.4	.....	70	30	12	14	45	1.40	.....	0.45	2.5	5	24	4	3	SW	H. R. Southern	
Fernley ††	Lyon	.....	0	41.2	.....	65	30	22	13	39	1.37	.....	0.70	0.9	8	4	13	14	NE	A. J. Rankin	
Gardnerville	Douglas	4,830	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Lawrence Ezell	
Hazen b-2	Churchill	4,050	1	42.2	.....	70	30	20	11	41	1.31	.....	0.57	3.5	9	20	2	9	NW	P. H. Moulton	
Leetville	Churchill	4,020	1	42.8	.....	75	15	21	13	44	0.12	.....	0.05	0.8	3	6	24	1	W	H. A. McKenney	
Lewers' Ranch†	Washoe	5,500	20	37.5	-2.1	76	30	11	14	50	16.85	+12.94	7.40	41.0	9	3	12	16	.....	Ross Lewers	
Reno	Washoe	4,532	37	38.2	-2.8	66	30	13	13	37	4.15	+3.47	1.25	21.2	15	9	10	12	W	Central Office	
Soda Lake	Churchill	4,005	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Sam Hiller	
Stillwater	Churchill	3,895	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. J. Freeman	
Verdi	Washoe	.....	.....	34.9	.....	62	30	2	13	39	3.90	.....	2.00	39.0	4	.....	.....	.....	.....	C. G. Selring	
Wabuska	Lyon	4,347	5	41.1	.....	72	31	11	3	51	1.25	.....	0.50	0.0	6	7	17	7	SW	J. G. Young	
Wadsworth	Washoe	4,077	36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. O. Howard	
Southern Section.		Means	.....	40.3	.....	.....	.....	.....	.....	.....	3.79	.....	.....	13.6	7	10	12	9	W	.....	
Columbia n.	Esmeralda	5,750	1	39.7	.....	.....	.....	.....	.....	.....	2.22	.....	1.31	3.0	6	12	13	6	S	Will W. Thompson	
Geyser a	Lincoln	.....	3	35.6	.....	64	17	7	13	41	2.08	.....	1.20	1.5	5	3	6	22	S	A. D. Campbell	
Las Vegas	Lincoln	2,074	0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Agent Salt Lake Route	
Logan	Lincoln	1,700	1	56.8	.....	83	31	31	28	38	1.40	.....	1.05	0.0	3	4	15	12	S	Chas. Arney	
McAfee's Ranch*	Esmeralda	4,835	4	36.2	.....	77	18	1	13	54	.....	.....	.....	.....	.....	9	0	22	S	G. A. McAfee	
Mina	Esmeralda	4,600	1	43.0	.....	67	31	19	27	37	0.20	.....	0.20	2.0	1	0	19	12	NW	Agent So. Pacific Co.	
Palmetto	Esmeralda	6,780	18	34.9	-1.8	64	31	9	26	36	8.00	+6.25	1.35	48.0	12	7	6	18	E	Wm. Oothout, Jr.	
Pioche a	Lincoln	6,100	3	39.2	.....	71	19	11	28	39	2.64	.....	1.32	8.5	8	2	0	29	S	A. A. Carman	
Tonopah	Nye	6,000	1	37.3	+1.9	62	18	14	26	22	1.15	.....	0.68	5.8	7	7	22	2	SE	U. S. Weather Bureau	
Means		.....	.....	40.3	.....	.....	.....	.....	.....	.....	2.53	.....	.....	11.6	6	6	10	15	S	.....	
State Means and Extremes.				38.3	-0.3	83	31	-10	2	51	2.66	+1.26	7.40	20.5	8	6	10	15	S	.....	.....

REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station indicates the number of days missing from the record; for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

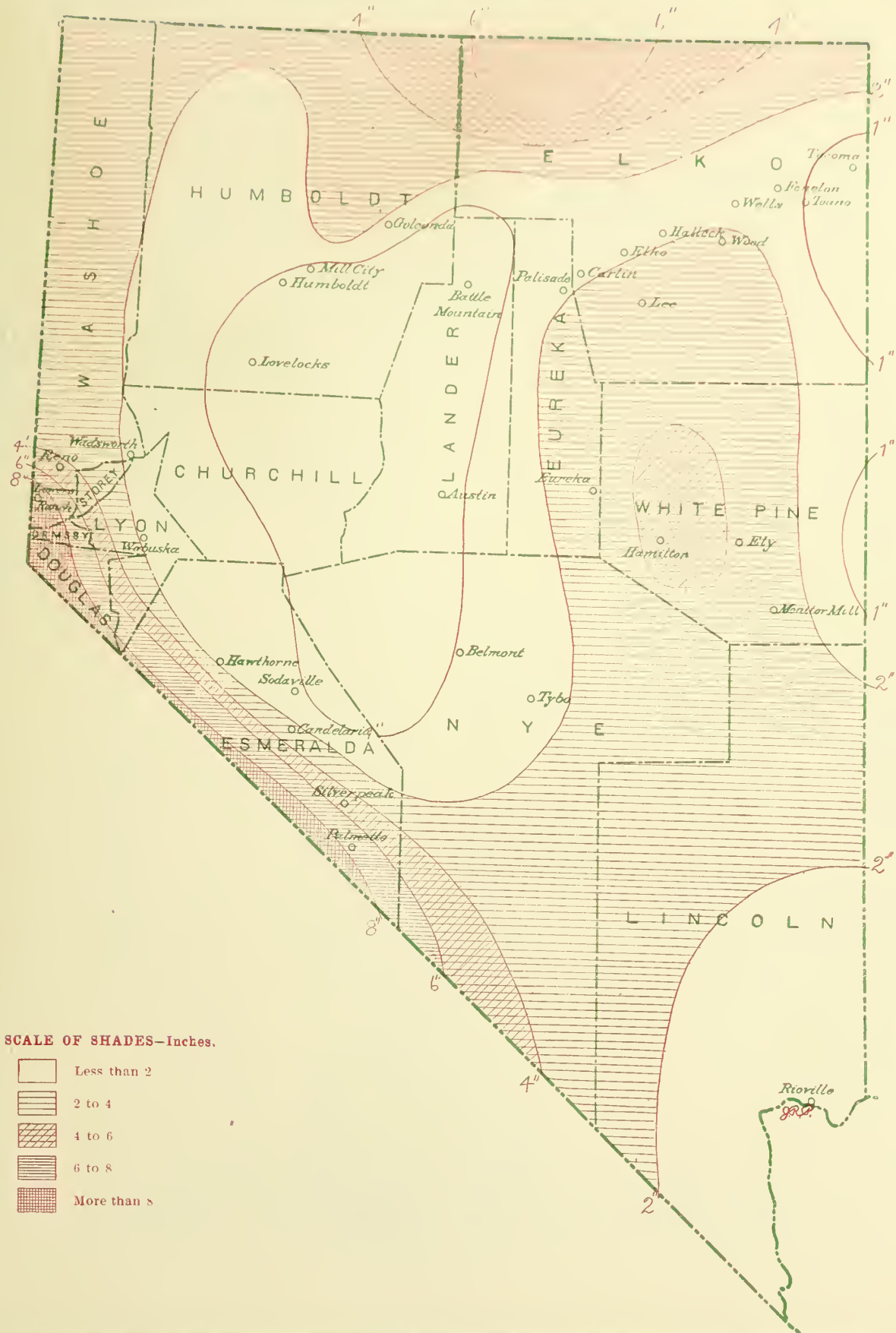
†Postoffice—Wells. †Postoffice—Franktown. †Postoffice—Amos. \*Postoffice—Dyer †Postoffice—Eureka. \*\*Postoffice—Golconda. ††Postoffice—Hazen. ††Postoffice—Wadsworth.



Stations.	Day of Month.																															Means.	Months.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Aura.....	Max. 32	41	39	42	42	43	40	40	38	35	35	29	30	39	39	34	44	47	45	46	38	35	38	31	30	25	28	32	37	48	56	38.0	
.....	Min. 30	46	23	27	34	31	30	21	21	24	10	15	8	9	22	26	32	39	35	36	22	26	30	25	21	1	5	21	26	18	31	23.1	
Austin.....	Max. ....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Battle Mountain.....	Max. 58	55	55	56	56	55	53	53	48	46	47	56	53	55	53	53	50	48	48	47	43	46	45	40	38	38	41	48	50	52	55	49.8	
.....	Min. 32	30	30	31	30	28	28	22	20	22	24	28	30	28	28	24	22	22	22	26	21	22	28	29	29	22	23	24	27	27	28	26.0	
Carson City.....	Max. ....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Carson Dam.....	Min. 53	52	53	47	48	48	47	50	54	51	45	40	45	57	54	50	67	59	62	59	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	53.2
.....	Max. 41	30	23	33	38	31	32	29	48	45	44	27	25	51	50	45	55	61	61	59	41	50	45	50	43	40	36	39	54	60	62	31.9	
Clover Valley.....	Max. ....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	49.2
.....	Min. 30	26	29	29	33	33	31	25	24	28	21	22	16	44	49	50	61	69	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	26.4
Columbia.....	Max. 55	55	59	60	60	47	46	44	47	47	51	50	44	17	22	31	44	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	51.5
.....	Min. 32	31	32	32	26	30	29	26	32	32	25	17	17	17	17	17	17	60	56	54	54	44	53	50	39	33	35	40	50	60	62	47.2	
Eureka.....	Max. 50	50	54	57	40	41	43	41	43	45	46	15	10	10	10	32	35	41	44	41	24	28	29	33	19	4	12	20	23	27	38	26.1	
.....	Min. 30	24	34	32	34	29	23	25	26	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	54.9	
Fallon.....	Max. 56	52	53	53	48	47	49	54	58	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29.9	
.....	Min. 35	33	28	34	38	30	30	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	51.0	
Fernley.....	Max. 51	54	54	42	49	49	47	51	54	44	47	39	48	49	49	54	60	54	61	58	54	54	50	45	40	43	44	52	60	65	61	31.5	
.....	Min. 40	33	31	31	37	31	32	31	30	30	29	24	22	30	29	37	42	46	39	30	37	33	27	29	25	23	23	27	33	26	39	.....	
Gardnerville.....	Max. ....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	48.3
.....	Min. ....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	23.0	
Geyser.....	Max. ....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	67
.....	Min. 57	50	60	55	56	61	58	47	56	53	54	46	46	53	52	46	60	60	57	54	49	49	40	46	38	39	40	46	51	61	67	.....	
Golconda.....	Max. 37	40	28	30	37	35	35	25	33	29	26	25	20	34	27	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	31.0
Hamilton.....	Max. 40	30	33	31	35	40	40	40	36	40	44	40	44	40	40	36	33	48	48	40	44	40	40	40	36	33	30	33	40	40	44	44	38.7
.....	Min. 3	10	10	20	15	15	15	12	14	21	15	11	-1	-2	17	20	38	28	28	20	24	20	20	20	15	2	-2	2	14	14	20	14.1	
Hazen.....	Max. 56	58	58	52	56	58	50	52	54	55	45	38	46	55	56	53	65	62	61	60	55	50	48	46	41	44	48	25	26	34	69	54.0	
.....	Min. 29	32	24	34	32	31	32	30	31	30	20	23	21	23	31	39	38	46	44	38	38	29	28	24	24	24	25	26	34	29	35	30.5	
Humboldt.....	Max. 60	62	54	52	58	56	64	60	61	58	53	50	48	50	55	47	45	42	40	44	48	48	46	50	48	47	49	50	55	60	60	52.1	
.....	Min. 30	30	32	30	32	31	34	33	34	30	28	30	30	31	32	27	30	25	23	25	25	23	25	30	31	34	35	36	36	34	38	30.5	
Las Vegas.....	Max. ....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
.....	Min. ....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Leetville.....	Max. 48	50	58	50	48	46	44	52	55	48	46	41	48	55	75	55	66	60	63	59	55	50	52	48	41	41	47	54	62	70	70	53.5	
.....	Min. 22	32	25	33	38	31	32	30	38	30	25	26	21	41	50	30	42	46	46	47	40	46	36	33	25	26	22	26	33	39	39	39	39
Lewers' Ranch.....	Max. 42	49	30	52	43	50	50	26	40	35	28	16	17	11	50	30	42	46	56	36	36	30	22	32	27	26	31	16	26	76	65	42.6	
.....	Min. 32	29	30	32	33	28	29	26	24	26	23	65	61	64	62	75	80	81	82	51	58	47	43	42	50	50	40	45	31	36	36	36	27.4
Logan.....	Max. 70	75	70	58	63	63	63	64	64	62	42	42	42	42	42	35	37	38	38	36	30	22	32	27	23	69	60	55	63	70	83	69.0	
.....	Min. 40	47	49	53	50	47	46	42	44	42	40	40	40	40	40	36	42	42	42	51	58	47	43	42	50	50	40	45	31	36	42	55	41.5
McAfee's Ranch.....	Max. 60	60	60	50	47	46	48	48	46	46	40	45	45	48	52	58	73	77	63	55	54	52	54	55	45	42	41	54	7	11	28	54.0	
.....	Min. 11	11	22	28	23	23	15	26	26	12	15	6	1	8	10	20	20	20	39	36	22	21	22	22	7	5	6	7	47	58	64	18.4	
Mina.....	Max. 56	58	58	52	56	54	53	52	49	48	49	48	48	54	52	56	58	59	56	59	54	53	54	56	44	47	48	58	56	64	67	54.2	
.....	Min. 34	36	31	32	34	34	32	33	35	38	38	32	36	43	43	32	32	34	37	39	37	34	38	29	22	28	19	33	34	27	34	31.9	
Palmetto.....	Max. 54	53	50	40	40	35	40	35	35	38	38	32	36	43	43	52	60	58	55	55	48	45	43	42	40	35	35	35	35	60	64	44.7	
.....	Min. 28	25	29	30	31	28	23	21	22	25	21	13	11	13	17	28	35	34	38	38	38	23	26	29	30	25	9	16	25	22	20	64	25.1
Pioche.....	Max. 48	50	56	53	44	46	41	45	42	41	52	42	41	49	58	58	62	62	71	59	53	48	30	32	27	43	39	43	32	39	34	31.9	
.....	Min. 27	31	30	39	32	29	22	26	26	29	42	37	36	14	21	29	38	45	48	51	45	43	46	45	39	47	17	13	11	19	19	19	50.5
Potts.....	Max. 49	48	51	46	39	41	41	43	40	42	37	36	32	7	4	0	15	26	38	42	41	39	26	27	19	19	1	8	15	58	29	21.5	
.....	Min. 28	27	28	32	32	20	19	20	23	27	2	4	43	54	54	48	60	54	59	59	49	46	42	44	40	42	41	41	41	51	58	65	49.9
Quinn River Ranch.....	Max. 55	50	45	44	51	50	49	52	50	43	28	42	43	18	23	32	32	35	43	43	36	32	29	30	25	24	19	31	34	26	21	21	28.6
.....	Min. 24	27	25	24	31	31	31	29	31	25	25	40	36	41	51	51	46	48	59	52	46	43	39	40	39	40	40	40	40	47	59	29	47.9
Reno.....	Max. 46	51	52	43	51	49	48	50	49	40	40	36	41	51	51	46	57	48	59	52	46	43	39	40	39	40	40	40	40	47	29	36	28.9
.....	Min. 33	30	27	31	36	30	31	26	28	24	19	13	18	27	35	44	42	48	38	33	32	30	27	17	17	17	15	24	29	36	48	27.4	
San Jacinto.....	Max. 41	44	45	45	45	45	48	47	50	50	41	38	38	48	51	45	58	66	57	61	58	46	56	45									



TOTAL PRECIPITATION FOR MARCH, 1907.





\* Amount included in that of the following day.

T indicates trace.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, - J. G. McCARTHY, SUPT.

1907



U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR APRIL, 1907.

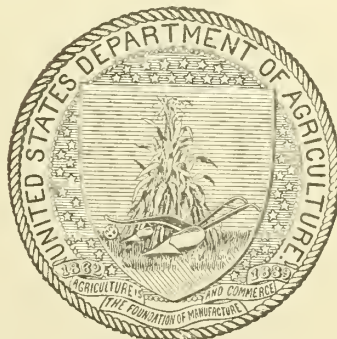
NEVADA SECTION  
OF THE  
CLIMATOLOGICAL SERVICE  
OF THE  
WEATHER BUREAU

IN COOPERATION WITH THE  
NEVADA STATE WEATHER SERVICE

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF  
WILLIS L. MOORE  
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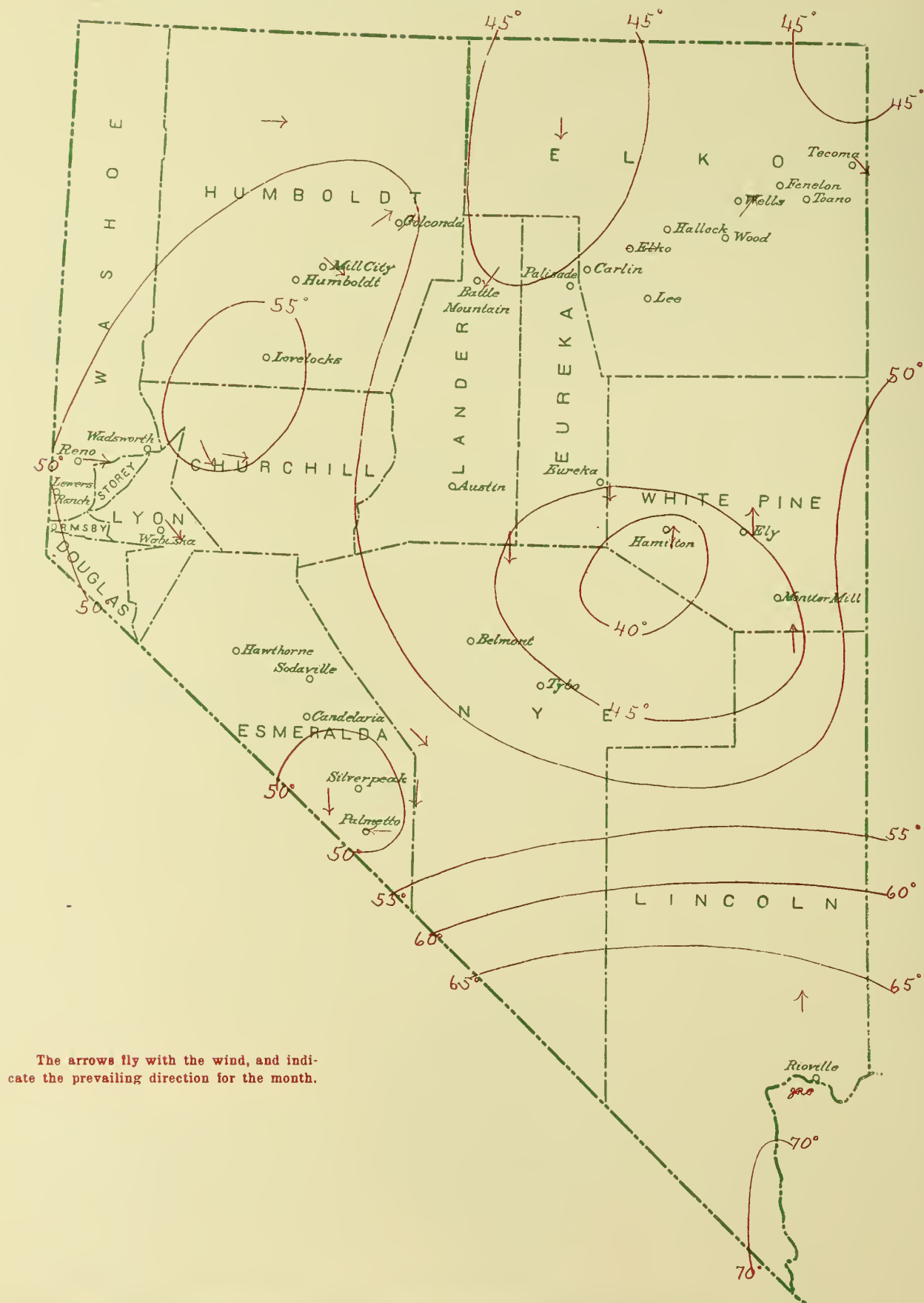
BY  
HARRY O. GEREN  
SECTION DIRECTOR



CARSON CITY, NEVADA:  
May 29, 1907



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR APRIL, 1907.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**  
 OF THE  
**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,  
 HARRY O. GEREN, Section Director.

VOL. XXI.

RENO, NEVADA, APRIL, 1907.

No. 4.

## GENERAL SUMMARY.

## Pressure.

The mean pressure for the State, reduced to sea level, was 29.94 inches. The highest during the month was 30.36 inches, at Winnemucca, on the 20th, and the lowest was 29.64 inches, at Tonopah, on the 26th.

## Temperature.

The mean temperature for the State was 50.1°, which is 3.2° higher than the normal for the month, and 2.5° higher than the mean of the corresponding month of 1906. The mean temperature for the northern section was 48.1°; for the eastern section, 42.7°; for the central section, 45.4°; for the western section, 53.6°; and for the southern section, 52.3°. The highest monthly mean temperature was 65.8°, at Logan, Lincoln County. The lowest monthly mean temperature was 38.4°, at Hamilton, White Pine County. The highest temperature was 94°, at Logan, Lincoln County, on the 11th and 12th, and the lowest was 12°, at McAfee's Ranch, Esmeralda County, on the 29th, making a range in temperature for the State of 82°. The greatest daily range in temperature at any station was 60°, on the 7th, at McAfee's Ranch, Esmeralda County.

It will be seen from an examination of the comparative State data that this April is the third warmest since 1888, being surpassed in 1889, when the mean was 53.5°, and in 1898, when it was 51.1.

## Precipitation.

The average precipitation for the State was 0.58 inch, which is 0.21 inch below the normal for the month, and 0.72 inch less than the average for the corresponding month of 1906. The average precipitation for the northern section was 0.63 inch; for the eastern section, 0.32 inch; for the central section, 0.70 inch; for the western section, 0.77 inch; and for the southern section, 0.33 inch. The greatest monthly amount was 1.73 inches, at Clover Valley, Elko County, while at Mill City, Humboldt County, there was no precipitation. The greatest amount recorded in any twenty-four hours was 1.40 inches, on the 14th, at Lewers' Ranch, Washoe County. The average number of days with 0.01 inch or more of precipitation was 3.

The precipitation occurred mostly on the 2d and 3d, and 14th and 15th, for the State, as a whole, but over the northern half of the State it fell at scattered stations on the 5th, 18th and 19th.

## Wind.

The prevailing direction of the wind was west. The total movement at Reno was 4,731 miles; at Tonopah it was 6,473 miles, and at Winnemucca it was 5,120 miles. The maximum velocity for a period of five minutes at Reno was at the rate of 27 miles per hour, southwest, on the 11th; at Tonopah it was 29 miles per hour, northwest, on the 6th, and at Winnemucca it was 36 miles per hour, southwest, on the 13th. The average velocity in miles per hour was 6.6 at Reno, 9.0 at Tonopah, and 7.5 at Winnemucca.

## Sunshine and Cloudiness.

The average number of clear days was 14, partly cloudy days 9, and cloudy days 7.

## COMPARATIVE STATE DATA FOR APRIL.

Year.	Temperature.			Average precipitation.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1889.....	53.5	100	16	0.45	.....	.....	.....	.....	.....
1890.....	49.0	96	8	0.72	.....	.....	.....	.....	s
1891.....	48.3	88	5	1.51	5	.....	.....	.....	s
1892.....	44.3	84	6	0.62	4	.....	.....	.....	w
1893.....	42.3	78	0	1.14	6	.....	.....	.....	sw
1894.....	47.6	90	10	0.59	4	.....	.....	.....	sw
1895.....	48.2	95	1	0.42	2	16	7	7	w
1896.....	41.7	89	0	1.00	5	9	7	14	sw
1897.....	47.3	91	9	0.37	.....	.....	.....	.....	.....
1898.....	51.1	103	12	0.71	2	17	7	6	w
1899.....	47.9	87	12	0.37	2	15	8	7	w
1900.....	43.8	82	10	1.98	7	6	7	17	w
1901.....	45.3	98	—2	0.59	3	15	6	9	sw
1902.....	45.8	84	14	0.75	3	11	9	10	sw
1903.....	45.2	101	1	0.47	2	17	6	7	sw
1904.....	45.4	97	10	0.66	3	15	7	8	sw
1905.....	47.0	85	10	0.84	4	14	7	9	sw
1906.....	47.6	90	9	1.30	5	13	7	10	w
1907.....	50.1	94	12	0.58	3	14	9	7	w
Means; extremes.	46.9	103	—2	0.79	4	14	7	9	sw

## OBSERVERS' REMARKS.

CLOVER VALLEY—It has been windy all month. Stock is gaining fast. A. H. WISEMAN.

GEYSER—The latter part of the month has been quite cold, a strong ice forming at night. A. D. CAMPBELL.

## MISCELLANEOUS PHENOMENA.

*Fog*—Tonopah, 3d.

*Hail*—Carson Dam, 14th; Fallon, 2d, 14th; Hamilton, 13th; Tecoma, 15th.

*Halo, Solar*—Eureka, 10th.

*Haze*—Reno, 16th.

*High Winds*—Carson Dam, 4th, 5th; Clover Valley, 5th, 7th; Columbia, 19th, 26th; Hazen, 4th, 5th, 6th, 14th; Logan, 19th; McGill, 4th, 14th, 15th, 19th, 26th; Palmetto, 3d, 14th, 19th, 29th; Potts, 1st, 14th, 17th, 19th, 25th; Reno, 2d, 4th; Tonopah, 6th; Wabuska, 5th; Winnemucca, 13th.

*Sleet*—Geyser, 2d; Palmetto, 2d.

*Thunderstorms*—Clover Valley, 2d, 15th; Columbia, 28th; Eureka, 13th; Fallon, 12th, 13th; Fernley, 14th; Geyser, 3d,



27th; Hamilton, 13th, 26th; Hazen, 14th; Leetville, 14th; McGill, 26th; Palmetto, 25th; Potts, 13th; Reno, 14th; San Jacinto, 13th, 14th; Tonopah, 13th; Winnemucca, 2d.

#### CLIMATOLOGY OF BEOWAWE, NEVADA.

Beowawe is situated in the northern portion of Eureka County, in latitude 40° 37' north and longitude 116° 35' west. The elevation is 4,697 feet. The surrounding country is mountainous with a high hill right back of the station and a river near by. The record is very complete for the years preceding 1902, but for that and subsequent years it has been so irregular that there is no annual mean temperature or total precipitation.

The warmest month, July, has a mean temperature of 77.2°, while the coldest month, January, has a mean of 26.4°. The warmest month on record is that of July, 1894, when the mean temperature was 87°; the coldest month was that of January, 1890, when the mean temperature was only 11°. The coldest July was in 1900, when the mean was 69°, and the warmest January occurred in two years, 1881 and 1905, having an average temperature of 36°. The highest temperature recorded during the period for which daily extremes are available (1889 to 1906), was on August 3, 1905, when it was 105°. The lowest was 39° below zero on January 8, 1890, giving a range of 144° during the eighteen years mentioned.

The precipitation is rather evenly distributed thruout the year, except for a dry period during July, August, and September, when the average is about 0.19 inch per month as contrasted with an average of about 0.62 inch per month for the remainder of the year. The greatest amount ever recorded in one month was 3.76 inches in January, 1890, while there have been 89 months, or 20 per cent of all the months on record, during which no rain has occurred. The wettest year was that of 1891 with 14.92 inches of precipitation, while the driest was that of 1887 with only 2.17 inches. Of the months of July on record, 51 per cent have no rain, August 43 per cent, and September 50 per cent. The longest dry period was in 1887, when from May to October, inclusive, there was no rain, while in the same year during the eight months from March to October, inclusive, only 0.07 inch of precipitation occurred.

#### Monthly and Annual Precipitation.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1870	0.91	0.40	0.57	0.11	0.24	0.72	0.00	0.01	0.00	0.07	0.22	0.33	3.58
1871	0.50	0.25	0.00	0.00	0.00	0.00	0.00	0.01	0.88	0.38	0.68	1.34	4.04
1872	0.14	0.21	0.45	1.82	1.50	0.00	0.00	T	1.30	0.12	0.25	0.41	6.23
1873	0.25	1.28	0.44	T	0.70	0.00	0.00	0.62	0.00	0.51	0.66	0.90	5.36
1874	0.00	0.90	0.90	0.58	0.58	0.00	T	0.97	0.00	1.54	0.84	0.81	7.12
1875	1.81	0.12	0.18	1.90	0.81	0.66	0.00	0.06	0.65	2.30	1.56	9.48	
1876	0.22	0.60	0.71	0.44	0.22	0.17	1.61	0.00	0.63	1.30	0.47	0.38	6.75
1877	1.06	0.82	1.45	0.25	2.22	0.00	1.66	0.03	0.07	0.17	0.28	0.11	8.72
1878	1.02	0.81	1.08	0.84	1.54	0.78	0.01	0.30	0.51	0.15	0.00	0.04	7.14
1879	1.09	0.25	0.13	1.03	0.30	0.20	0.60	0.00	0.10	0.06	3.70	1.15	8.61
1880	0.05	1.31	0.65	0.75	0.27	0.00	0.00	0.00	0.00	0.00	0.10	2.20	5.33
1881	2.10	0.85	0.12	0.14	0.42	0.00	0.03	0.13	0.00	0.61	0.34	0.40	5.46
1882	0.65	0.22	1.65	1.10	0.07	0.10	0.20	0.00	1.09	0.83	0.52	0.22	6.65
1883	0.76	0.60	0.32	0.59	0.38	0.00	0.00	0.00	0.00	1.14	0.60	0.82	5.61

#### MONTHLY AND ANNUAL PRECIPITATION—Continued.

1884	0.75	1.60	0.96	0.77	1.29	2.25	0.00	0.00	0.93	0.59	0.00	1.84	10.98
1885	0.50	0.40	0.00	0.82	0.23	1.55	0.00	0.39	0.00	0.00	1.41	0.92	6.22
1886	0.78	0.08	0.35	0.41	0.22	0.00	0.25	0.00	0.00	1.20	0.80	0.68	4.77
1887	0.20	1.20	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.20	2.17
1888	1.10	0.10	0.00	0.15	0.35	0.59	0.00	0.00	0.00	0.35	0.08	0.47	3.19
1889	0.90	0.00	0.18	0.20	0.11	0.05	0.00	T	0.00	1.06	0.05	1.88	4.43
1890	3.76	1.00	0.96	0.42	1.76	0.00	0.00	0.44	0.36	0.00	0.00	0.30	9.00
1891	0.20	1.65	2.49	1.75	2.05	2.77	0.15	0.10	0.63	0.06	0.32	2.75	14.92
1892	0.80	1.00	0.77	0.47	2.00	1.40	0.00	0.00	0.00	0.00	0.10	0.75	7.29
1893	0.90	0.40	0.80	1.32	0.47	0.00	0.00	0.20	0.10	0.00	1.27	0.30	5.76
1894	0.65	1.15	0.15	0.80	0.55	0.50	0.00	0.00	0.00	0.00	1.20	0.50	5.00
1895	0.80	0.80	0.05	0.05	T	0.00	0.00	T	T	0.00	0.15	0.60	2.45
1896	0.25	T	0.85	0.15	2.04	0.00	0.90	0.20	0.25	0.42	0.59	0.89	
1897	0.58	1.14	0.49	0.09	0.00	0.75	0.40	0.00	T	0.50	0.18	0.65	4.78
1898	0.56	T	0.53	0.60	1.50	T	T	T	0.15	0.28	0.60	0.12	4.64
1899	0.60	0.45	1.85	0.30	0.00	T	T	0.00	T	T	0.00	T	0.90
1900	0.95	0.20	0.60	0.60	0.00	1.00	0.00	0.00	0.00	0.65	0.05		
1901	0.52	3.05	0.13	0.25	0.60	0.00	T	0.30	0.00	1.05	0.50	1.50	7.90
1902	0.15	1.00	0.90	0.35	0.80	0.00	0.80	0.10	0.00	0.40	0.70	0.20	
1903	1.37	T	2.36	0.00	0.55	0.43	0.00	0.00	0.00	0.00	1.05	0.20	
1904	0.45	1.00	0.65	0.30	0.10	T	0.20	1.00	0.00	1.20	0.00	0.10	
1905	T	T	T	T	T	T	T	T	T	0.00	0.00	0.00	
1906	0.90	0.92	0.75	1.40	0.82	0.00	0.00	0.00	0.00	0.30	0.30		
Means	0.77	0.74	0.66	0.56	0.70	0.42	0.22	0.14	0.21	0.43	0.56	0.77	6.18

Greatest and least precipitation in *italic figures*.

#### Monthly and Annual Mean Temperatures.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1878	28	32	43	53	64	72	79	86	66	45	38	25	50
1879	24	40	55	53	55	67	79	71	52	45	31	26	49
1880	30	30	33	45	57	74	76	72	65	49	26	34	53
1881	36	39	46	59	65	72	77	73	62	46	31	33	49
1882	19	22	36	48	61	72	80	77	62	46	34	32	49
1883	15	20	48	46	56	72	78	75	67	44	38	29	49
1884	26	24	38	46	58	65	72	75	57	50	40	32	49
1885	30	39	47	52	60	64	78	74	63	54	44	36	53
1886	32	43	38	49	66	72	80	78	66	48	29	36	53
1887	34	32	49	48	60	69	77	72	63	50	35	22	51
1888	17	37	40	57	62	69	80	80	74	54	38	34	54
1889	17	25	48	56	63	76	82	80	65	53	37	31	53
1890	11	28	40	52	65	66	79	76	67	46	37	31	50
1891	24	28	38	49	58	62	79	77	64	55	40	22	50
1892	19	26	42	44	57	66	78	77	69	47	38	27	49
1893	26	27	36	38	56	71	78	78	61	50	34	31	49
1894	26	23	40	49	60	63	87	80	60	52	40	24	50
1895	24	24	39	50	58	64	73	72	61	50	33	24	48
1896	31	34	38	41	52	64	77	72	61	49	32	35	49
1897	31	29	32	49	54	64	71	76	63	46	39	29	49
1898	17	37	34	53	54	64	77	78	64	45	34	23	48
1899	29	29	32	45	49	65	77	65	64	43	42	22	47
1900	35	32	46	42	54	70	69	66	57	44	36	33	49
1901	34	35	49	52	64	69	82	77	63	55	43	33	55
1902	32	41	39	51	55	73	71	73	53	39	36		
1903	34	23	41	49	62	73	71	73	42	29			
1904	21	33	38	47	48	62	75	64	44	43			
1905	36	37	41	51	52	66	75	64	44	43			
1906	29	38	45	55									
Means	26.4	31.3	41.2	49.3	58.0	68.0	77.2	75.1	63.2	48.9	36.9	29.8	50.4

Highest and lowest temperatures in *italic figures*.

#### Temperature Extremes, 1889 to 1906, Inclusive.

Month.	Maximum.	Year.	Day.	Minimum.	Year.	Day.
January	60	1903	7	-39	1890	8
February	67	1902	16	-20	1890	22
March	78	1893	10	18	1895	1
April	87	1898	25	18	1895	31
May	94	1897	28	26	1899	7
June	103	1900	20	37	1895	31
July	104	1901	30	42	1903	7
August	105	1905	3	43	1897	31
September	98	1906	3*	22	1895	
October	86	1893		13	1892	
November	73	1903	1	-15	1896	
December	68	1902	4	-30	1891	

\* Also in 1888.



## CLIMATOLOGICAL DATA FOR APRIL, 1907.

Stations.	Counties.	Elevation feet	Length of record years	Temperature (degrees Fahrenheit)							Precipitation (inches)				Sky				Prevailing direction of wind	Observers.
				Mean.	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Number rainy days	Number clear days	Number partly cloudy days	Number cloudy days		
Northern Section.																				
Aura .....	Elko .....		0	41.7		67	12	20	20	33	1.36		0.40	T	10	8	10	12	N	E. J. Clark
Battle Mountain .....	Lander .....	4,511	37	45.0	-4.8	61	14	26	29	31						13	9	8	SE	Agent So. Pacific Co.
Beowawe-3 .....	Eureka .....	4,695	37																	
Carlin-3 .....	Elko .....	4,897	37																	
Clover Valley† .....	Elko .....	6,000	8	47.6		77	12	18	21	44	1.73		0.95	0.0	5	7	18	5		A. H. Wiseman
Elko-3 .....	Elko .....	5,063	37	47.6	+2.9	75	10	35	4	35	0.28	-0.16	0.25	0.0	2	10	6	20	W	Agent So. Pacific Co.
Golconda .....	Humboldt .....	4,392	29	51.8	+0.6	77	9	25	20	35	0.07	-0.53	0.07	0.0	1	14	6	10	SW	Agent So. Pacific Co.
Halleck-3 .....	Elko .....	5,229	35			77	9	18	20	44	0.70		0.30	T	3	8	12	10		Agent So. Pacific Co.
Humboldt .....	Humboldt .....	4,236	36																	
Lovelock .....	Humboldt .....	3,977	16																	
Mill City-3 .....	Humboldt .....	4,225	19	54.4	+6.5	80	12	40	6	31	0.00	-1.26	0.00	0.0	0	8	15	7	NW	W. I. Birth
Palisade .....	Eureka .....	4,821	26																	
Quinn River Ranch* .....	Humboldt .....	4,850	6	49.9		76	9	21	30	46	0.42		0.41	0.0	2	18	6	6	W	F. M. Payne
San Jacinto d .....	Elko .....		3	44.8		78	12	15	29	47	0.84		0.42	T	5					Moses Jones
Squaw Valley**--2 .....	Elko .....	5,100	1																	
Tecoma .....	Elko .....	4,812	30	47.3	+1.5	78	14	20	25	50	T	-0.62	T	0.0	0	8	3	19	NW	Agent So. Pacific Co.
Wells .....	Elko .....	5,623	36								T	-0.63	T	0.0	0	13	2	15	SW	J. J. Cullen
Winnemucca .....	Humboldt .....	4,432	29	51.2	+4.1	78	12	27	30	42	0.88	+0.12	0.81	0.0	4	13	10	7	SW	U. S. Weather Bureau
Means .....				48.1							0.63			0.0	3	10	9	11	NW	
Eastern Section.																				
Hamilton .....	White Pine .....	7,977	1	38.4		66	12	14	1	40	0.36		0.20	T	4	15	14	1	S	Mrs. L. C. Muir
McGill .....	White Pine .....		0	47.0		77	12	19	21	47	0.28		0.10	0.0	5	13	4	13	S	W. G. Perkins
Means .....				42.7							0.32			T	4	14	9	7	S	
Central Section.																				
Austin .....	Lander .....	6,594	19																	
Eureka .....	Eureka .....	6,500	5	46.7		78	9	17	20	40	1.04		0.42	3.0	5	6	8	16	N	Clay Simms
Potts .....	Nye .....	6,990	15	44.2	-1.9	75	12	14	20	44	0.37	-0.47	0.30	4.0	3	5	15	10	N	Miss Mamie Potts
Means .....				45.4							0.70			3.5	4	6	11	13	N	
Western Section.																				
Carson Dam†† .....	Churchill .....	4,032	1	54.3		80	11	32	7	38	0.99		0.46	0.0	3	14	11	5	W	J. M. Heizer
Fallon .....	Churchill .....	3,965	3	54.8		81	9	29	21	43	1.06		0.39	0.0	3	27	3	0		H. R. Southern
Fernley †† .....	Lyon .....		0	54.2		81	11	28	3	47	1.00		1.00	0.0	1	13	12	5	E	H. A. Rankin
Gardnerville .....	Douglas .....	4,830	9	48.4		83	13	20	4	55	0.10		0.10	0.0	1	26	3	1		Lawrence Ezell
Hazen-2 .....	Churchill .....	4,050	1	56.3		84	12	32	1	39	0.65		0.38	0.0	2	24	1	5	NW	P. H. Moulton
Leetville .....	Churchill .....	4,020	1	55.3		81	9	30	20	40	0.11		0.06	0.0	2	15	13	2	W	A. H. McKenney
Lewers' Ranch† a .....	Washoe .....	5,500	20	50.3	+4.3	78	12	25	3	41	1.40	-0.20	1.40	0.0	1	6	20	4		Ross Lewers
Reno .....	Washoe .....	4,532	37	50.8	+3.8	79	12	29	3	43	0.72	+0.20	0.70	0.0	2	18	8	4	W	Central Office
Soda Lake .....	Churchill .....	4,005	1																	
Stillwater .....	Churchill .....	3,895	1																	
Wabuska .....	Lyon .....	4,347	5	52.4		82	9	23	3	48	0.35		0.35	0.0	1	21	8	1	NW	J. G. Young
Wadsworth .....	Washoe .....	4,077	36																	
Means .....				53.6							0.77			0.0	2	17	10	3	W	
Southern Section.																				
Columbia .....	Esmeralda .....	5,750	1	52.2		80	10	28	20	38	T		T	0.0	0	17	13	0	N	Will W. Thompson
Geyser d .....	Lincoln .....		3	44.3		78	12	14	20	52	0.84		0.66	T	2				S	A. D. Campbell
Las Vegas .....	Lincoln .....	2,074	0																	
Logan .....	Lincoln .....	1,700	1	65.8		94	11	36	20	45	0.42		0.32	0.0	2	19	9	2	S	Chas. Arney
McAfee's Ranch* a .....	Esmeralda .....	4,835	4	45.6		82	9	12	29	60	T		T	T	0	22	1	7	N	G. A. McAfee
Mina .....	Esmeralda .....	4,600	1	55.0		87	13	28	1	53	T		T	0.0	0	12	16	2		Agent So. Pacific Co.
Palmetto .....	Esmeralda .....	6,780	18	46.8	+3.2	82	11	18	21	46	1.21	+0.05	0.41	4.0	4	17	5	8	E	Wm. Oothout, Jr.
Pioche b .....	Lincoln .....	6,100	3	52.2		84	12	24	20	52	0.83		0.61	0.0	3	9	7	14		A. A. Carman
Tonopah .....	Nye .....	6,000	1	51.1	+7.6	75	9	30	3	27	0.22		0.14	0.0	4	17	12	1	NW	U. S. Weather Bureau
Means .....				52.3							0.33			0.0	2	17	8	5	N	
State Means and Extremes.				50.1	+3.2	94	11	12	29	60	0.58	-0.21	1.40	0.2	3	14	9	7	W	

REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station indicates the number of days missing from the record; for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

†Postoffice—Wells. †Postoffice—Franktown. †Postoffice—Amos. \*Postoffice—Dyer †Postoffice—Eureka. \*\*Postoffice—Golconda. ††Postoffice—Hazen. ††Postoffice—Wadsworth.

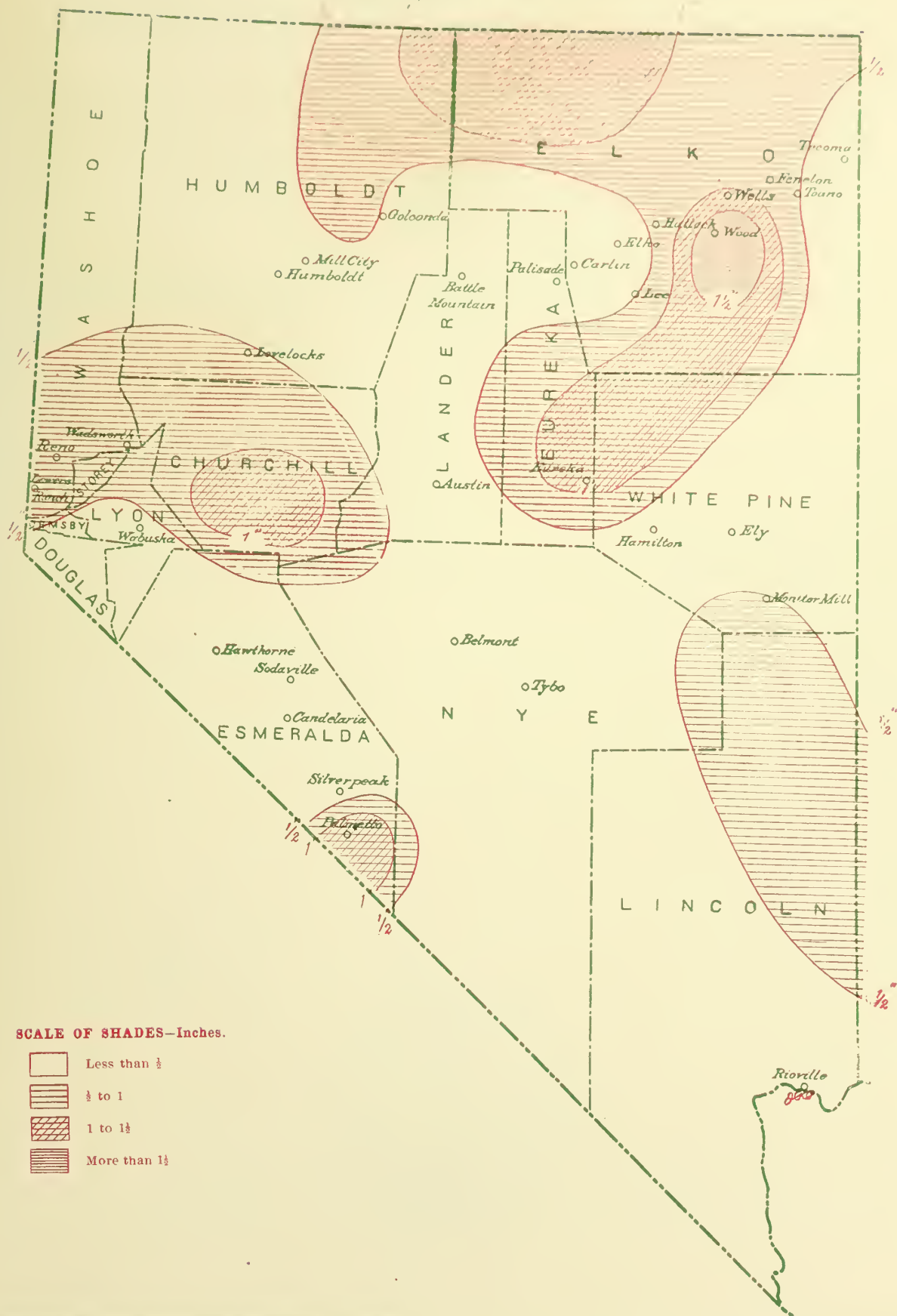


DAILY MAXIMUM AND MINIMUM TEMPERATURES FOR APRIL, 1907.

Stations.	Day of Month.																															Monthly means.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Aurra.....	Max. 55	46	46	43	40	41	50	56	62	60	61	67	62	60	47	50	47	46	42	45	55	62	57	47	55	58	55	49	48	51	.....	52.1
Austin.....	Min. 30	35	35	33	30	29	36	30	37	46	32	36	47	36	35	28	36	34	29	20	22	30	39	22	22	31	29	27	20	21	.....	31.3
Battle Mountain.....	Max. ....	60	60	59	62	63	62	59	58	58	60	61	62	64	63	63	62	63	61	59	58	57	57	58	57	56	55	56	55	56	.....	59.4
Carson Dam.....	Min. 30	32	32	30	34	34	34	34	38	30	31	31	34	35	34	34	32	32	30	30	30	29	29	29	29	28	28	28	26	26	.....	30.7
Clover Valley.....	Max. 68	62	64	60	53	57	66	76	77	69	67	80	75	67	61	67	67	67	66	66	75	73	69	70	70	70	71	65	62	66	.....	67.3
Columbia.....	Min. 40	43	43	39	45	45	32	38	40	43	43	45	50	43	42	45	46	44	46	45	58	60	71	61	60	68	65	61	66	59	.....	61.8
Eureka.....	Max. 60	56	54	57	57	57	69	76	68	68	69	77	74	70	55	58	57	58	45	58	18	27	33	31	31	31	40	31	28	25	.....	53.3
Fallon.....	Min. 34	39	34	35	32	33	33	35	30	35	30	33	33	33	36	38	33	33	37	40	41	28	28	28	28	38	38	38	39	33	.....	37.3
Fernley.....	Max. 62	48	45	56	47	54	61	72	78	46	43	43	44	68	60	56	61	60	56	48	60	67	66	62	64	66	62	60	53	53	.....	61.1
Gardnerville.....	Min. 41	35	29	27	32	35	30	32	39	38	38	40	45	42	33	33	33	31	33	17	20	28	34	36	27	34	33	33	20	23	.....	32.3
Geyser.....	Max. 73	66	55	61	55	64	68	77	81	79	80	81	78	75	61	72	68	68	68	60	69	77	75	72	71	72	70	73	63	67	.....	69.9
Golconda.....	Min. 36	42	32	36	44	40	32	40	42	45	42	45	50	51	41	40	45	40	46	30	29	34	47	44	35	37	41	40	33	29	.....	39.6
Hamilton.....	Max. 63	56	60	59	53	59	56	78	79	77	81	79	75	65	60	67	67	68	67	67	70	74	73	69	72	69	70	69	66	66	.....	67.8
Hazen.....	Min. 34	40	28	40	41	43	40	41	43	40	41	49	54	39	37	40	45	42	41	42	42	44	47	45	39	44	41	45	36	29	.....	40.7
Humboldt.....	Max. 63	65	60	61	65	68	70	78	79	81	80	82	83	65	77	70	71	69	71	68	71	72	70	69	71	68	71	68	67	69	.....	70.7
Leetville.....	Min. 25	23	24	20	25	24	25	30	32	33	31	34	35	22	25	25	25	24	25	23	25	27	26	20	25	24	24	21	30	30	.....	26.1
Lewers' Ranch.....	Max. 54	43	55	54	57	63	64	70	75	75	77	78	73	72	59	60	59	61	53	56	63	71	66	67	67	67	67	68	67	61	.....	63.6
Las Vegas.....	Min. 65	60	55	58	50	60	63	69	77	72	72	76	73	68	59	60	59	61	53	56	63	71	66	67	67	67	68	67	61	61	.....	25.0
Logan.....	Max. 55	43	35	33	40	43	45	60	64	65	66	65	41	45	51	55	55	40	44	25	31	36	40	37	31	45	43	36	35	29	.....	39.5
Lovelock.....	Min. 38	44	45	46	46	45	40	45	40	43	45	60	64	65	41	45	55	60	44	25	31	36	40	37	31	45	43	36	35	29	.....	51.9
McAfee's Ranch.....	Max. 78	68	74	78	87	87	91	88	94	94	94	94	90	86	80	80	85	84	83	70	75	83	89	88	86	85	83	84	74	78	.....	82.1
McGill.....	Min. 58	53	46	40	50	47	49	52	53	51	55	55	55	51	50	55	45	54	58	36	45	52	51	51	48	47	45	53	58	46	.....	49.5
Palmetto.....	Max. 54	64	69	73	77	77	78	82	81	81	81	76	71	61	61	61	69	69	62	60	60	72	76	73	70	68	67	71	62	.....	69.6	
Pioche.....	Min. 30	23	18	25	26	16	17	21	27	25	26	28	28	22	20	20	20	32	22	17	15	15	15	18	21	22	22	22	12	14	.....	61.9
Potts.....	Max. 57	51	51	57	52	54	60	71	75	72	74	77	74	71	64	59	61	59	58	47	59	67	70	63	64	66	59	55	55	54	.....	32.1
Quinn River Ranch.....	Min. 37	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	.....	63.1
Reno.....	Max. 50	50	45	60	58	65	68	70	72	80	82	80	72	58	55	63	65	63	60	52	62	65	68	70	65	64	60	58	58	55	.....	30.6
San Jacinto.....	Min. 35	35	29	26	25	25	33	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	.....	63.5
Squaw Valley.....	Max. 59	53	50	60	60	65	69	71	81	82	83	84	81	76	60	61	61	61	60	54	61	70	75	70	63	68	65	61	65	61	.....	34.8
Tecoma.....	Min. 35	36	32	28	27	31	34	33	40	40	41	43	41	41	34	34	36	41	39	21	25	27	27	27	27	27	27	27	27	27	.....	60.8
Tonopah.....	Max. 39	50	43	54	59	55	59	68	74	71	70	75	71	64	57	60	59	52	49	60	66	66	64	63	66	67	67	67	67	67	.....	27.5
Wabaska.....	Min. 67	63	56	57	48	53	65	69	76	74	73	74	74	70	69	65	63	60	54	61	70	75	70	63	68	65	61	65	61	65	.....	65.2
Wadsworth.....	Max. 26	41	34	29	38	40	41	39	44	45	40	36	34	35	36	39	39	40	40	22	24	29	35	37	37	37	37	37	37	37	.....	34.6
Winnemucca.....	Min. 65	52	56	53	48	54	69	70	75	71	76	79	69	50	58	67	65	68	60	59	70	72	69	69	68	65	63	64	62	64	.....	36.9
.....	Max. 36	52	52	47	57	63	73	69	70	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	.....	59.8
.....	Min. ....	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	.....	29.8
.....	Max. ....	50	51	43	46	52	59	67	70	75	77	74	75	78	69	57	51	55	52	48	40	45	58	60	62	60	62	67	70	72	.....	60.9
.....	Min. 27	36	29	23	22	29	36	38	42	43	42	38	32	37	33	32	37	33	29	30	36	37	24	20	30	33	30	35	37	.....	33.7	
.....	Max. 58	48	45	54	52	61	63	72	75	73	74	70	61	46	59	62	63	57	56	62	67	66	64	65	64	65	64	65	66	66	.....	61.6
.....	Min. 40	33	30	33	37	34	37	47	50	53	51	54	50	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	.....	40.6
.....	Max. 75	63	60	65	61	65	65	78	82	80	80	81	71	63	69	73	77	70	62	67	74	77	70	75	75	75	75	75	75	75	.....	71.2
.....	Min. 37	36	23	30	42	35	24	30	34	36	37	35	43	41	38	31	32	37	42	28	23	30	33	32	38	35	32	37	30	24	.....	33.5
.....	Max. ....	55	56	49	55	63	74	77	73	78	78	78	75	78	60	62	63	62	52	56	66	74	70	62	69	68	68	60	60	62	.....	65.0
.....	Min. 69	32	42	31	33	35	39	35	44	51	43	41	41	44	43	35	42	37	39	28	33	32	46	38	34	40	36					



TOTAL PRECIPITATION FOR APRIL, 1907.





\* Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, - J. G. McCARTHY, SUPT.

1907

1907



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR JUNE, 1907.

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NEVADA SECTION  
OF THE  
CLIMATOLOGICAL SERVICE  
OF THE  
WEATHER BUREAU

IN COOPERATION WITH THE  
NEVADA STATE WEATHER SERVICE

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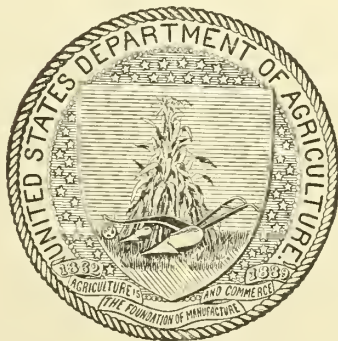
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UNDER DIRECTION OF  
WILLIS L. MOORE  
CHIEF U. S. WEATHER BUREAU

BY  
HARRY O. GEREN

SECTION DIRECTOR

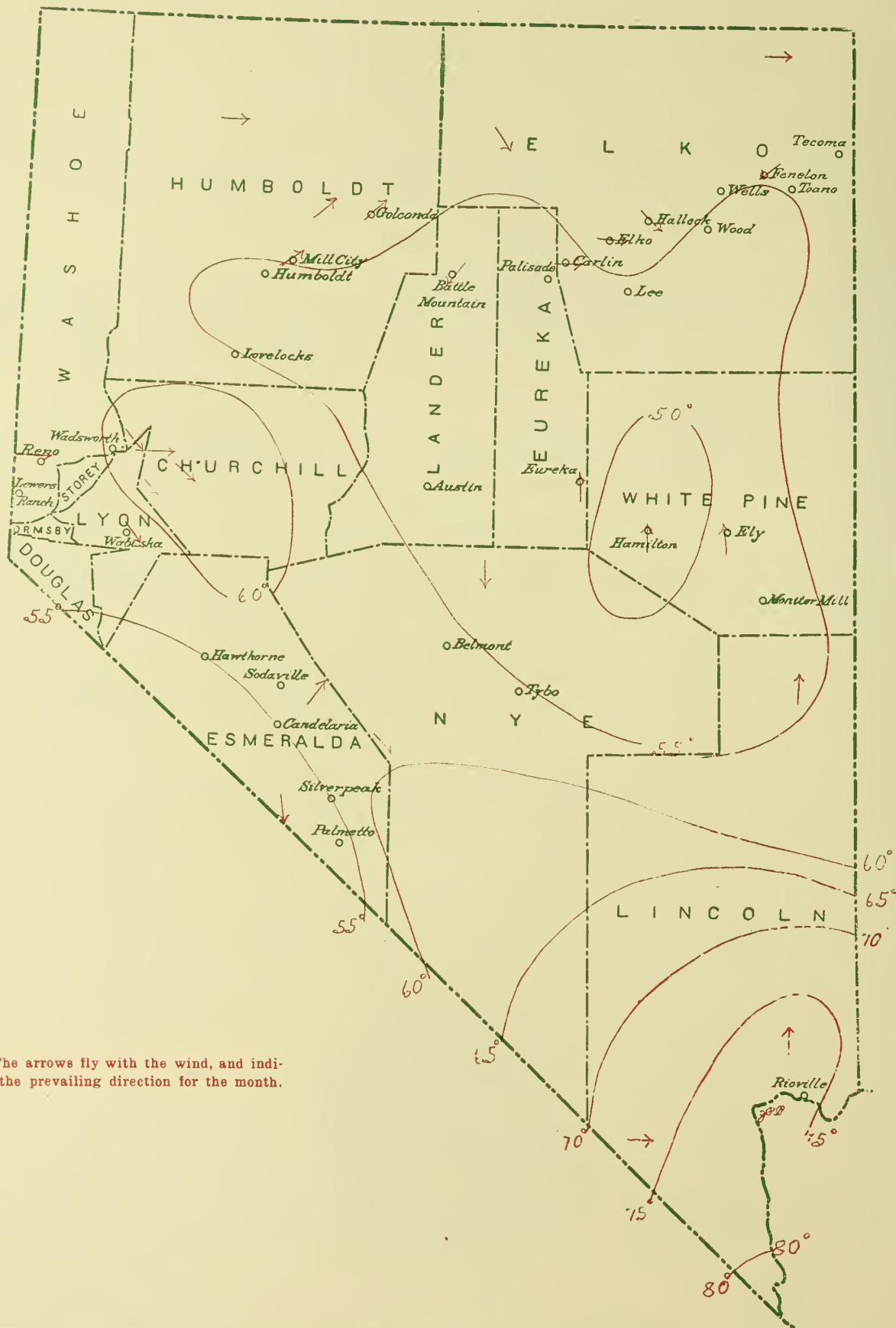


CARSON CITY, NEVADA:

July 27, 1907



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR JUNE, 1907.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**  
 OF THE  
**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,  
 HARRY O. GEREN, Section Director.

VOL. XXI. RENO, NEVADA, JUNE, 1907. No. 6.

**GENERAL SUMMARY.**

This month is the coldest June on record. The next coldest was in 1894, with an average temperature for the State of 57.8°, which is 0.9° warmer than the mean for the month just past. It is also the third wettest June on record. In 1891, the average precipitation for the State was 1.18 inches; in 1894, it was 1.12 inches, while this year is third with an average of 1.09 inches.

The coldest weather prevailed during a period of six to eight days about the middle of the month, the minimum temperatures for the month nearly all being recorded from the 13th to the 17th, inclusive. The warmest weather was during the closing days of the month, the maximum temperatures nearly all being recorded during the period from the 26th to the 30th, inclusive. Freezing temperatures occurred at more than two-thirds of the stations, while temperatures above 85° were recorded at practically all stations.

The greater portion of the precipitation fell during the first half of the month, but there was another rainy period from the 20th to the 24th, except in the southern portion of the State. The most notable feature of the precipitation was the fact that the snowfall, which occurred generally on the 13th and 14th, is very unusual for such a late date. This is especially true of the stations of comparatively low altitude.

**Temperature.**

The mean temperature for the State was 56.9°, which is 6.3° lower than the normal for the month, and 3.3° below the mean for the corresponding month of 1906.

The highest monthly mean temperature was 75.6°, at Logan, Lincoln County. The lowest monthly mean temperature was 47.4°, at Hamilton, White Pine County.

The highest temperature was 111°, at Logan, on the 28th, and the lowest was 18°, at Hamilton, on the 14th, and at Palmetto, on the 15th. The greatest daily range in temperature at any station was 62°, on the 17th, at McAfee's Ranch.

**Precipitation.**

The average precipitation for the State was 1.09 inches, which is 0.67 inch above the normal for the month, and 0.50 inch more than the average for the corresponding month of 1906. The greatest monthly amount was 3.86 inches at Eureka, Eureka County, while at four stations there was no

precipitation at all. The greatest amount recorded in twenty-four hours was 1.65 inches, at Lewers' Ranch, on the 14th. The average number of days with 0.01 inch or more of precipitation was 5.

**Wind.**

The prevailing direction of the wind was west. The average hourly velocity at Reno was 6.3 miles; at Tonopah it was 8.8 miles, and at Winnemucca it was 5.9 miles. The maximum velocity for a period of five minutes at Reno was at the rate of 31 miles per hour, north, on the 21st; at Tonopah it was 37 miles, northwest, on the 21st, and at Winnemucca it was 36 miles, northwest, on the 21st.

**Sunshine and Cloudiness.**

The average number of clear days was 13, partly cloudy days 9, and cloudy days 8.

**COMPARATIVE STATE DATA FOR JUNE.**

Year.	Temperature.			Average precipita- tion.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1889.....	70.0	110	30	0.22	.....	.....	.....	.....	s
1890.....	61.5	109	24	0.05	.....	.....	.....	.....	s
1891.....	59.8	97	8	1.18	5	.....	.....	.....	s
1892.....	62.8	110	22	1.06	4	.....	.....	.....	w
1893.....	63.8	100	18	0.04	0	.....	.....	.....	w
1894.....	57.8	92	20	1.12	5	.....	.....	.....	sw
1895.....	62.9	109	14	0.13	1	20	6	4	sw
1896.....	68.7	117	25	0.22	2	19	6	5	sw
1897.....	62.8	112	20	0.37	.....	.....	.....	.....	.....
1898.....	65.0	104	20	0.19	1	20	7	3	w
1899.....	63.7	103	21	0.60	2	22	4	4	w
1900.....	67.7	111	28	0.32	2	19	5	6	w
1901.....	59.1	99	21	0.15	1	19	8	3	w
1902.....	66.3	116	20	0.04	0	24	3	3	sw
1903.....	66.5	113	28	0.45	3	17	8	5	sw
1904.....	63.6	106	11	0.04	1	21	5	4	sw
1905.....	61.9	101	24	0.11	1	21	5	4	sw
1906.....	60.2	115	20	0.59	2	16	9	5	s
1907.....	56.9	111	18	1.09	5	13	9	8	w
Entire period.....	63.2	117	8	0.42	2	20	6	4	sw

**MISCELLANEOUS PHENOMENA.**

**Hail**—Clover Valley, 2d; Columbia, 12th; Eureka, 1st, 11th; Fernley, 6th, 13th, 15th; Gardnerville, 11th, 13th; Geyser, 6th, 7th, 8th, 12th, 13th; McGill, 6th; Palmetto, 4th, 5th, 6th, 7th; Squaw Valley, 5th; Tecoma, 15th.

**Halos, Solar**—Eureka, 27th.

**High Winds**—Carson Dam, 21st, 28th, 29th; Columbia, 8th, 11th, 21st, 23d; Fenelon, 28th, 29th; Hazen, 4th, 11th, 12th, 21st, 26th, 29th; McGill, 11th, 21st; Potts, 4th, 10th, 11th, 20th, 21st, 27th, 28th; Reno, 21st; Squaw Valley, 5th; Tonopah, 21st; Wabnska, 11th; Winnemucca, 21st.

**Killing Frosts**—Clover Valley, 13th, 14th, 15th, 16th; Eureka, 14th, 15th; Fenelon, 3d, 9th, 13th, 17th, 22d; Geyser, 7th, 13th, 14th, 15th, 16th, 17th, 24th; Palmetto, 14th, 15th, 16th; Paradise, 5th, 7th, 15th, 16th, 18th, 22d; Tonopah, 14th, 15th; Wabnska, 15th.



*Sleet*—Columbia, 12th; McGill, 2d; Palmetto, 14th.

*Thunderstorms*—Clover Valley, 1st, 5th, 20th, 24th; Columbia, 2d, 4th, 5th, 6th; Eureka, 4th, 5th, 20th; Fernley, 1st, 2d, 6th, 21st; Fenelon, 1st, 4th, 5th, 20th, 21st, 24th; Geyser, 2d, 3d, 6th, 7th, 8th, 18th, 19th; Hamilton, 1st, 2d, 3d, 5th, 6th, 7th, 8th, 10th, 12th, 13th, 14th, 15th, 20th, 23d; Hazen, 1st; Leetville, 4th, 6th; McGill, 1st, 2d, 5th, 6th, 20th; Palmetto, 1st, 2d, 5th, 6th, 7th, 14th; Potts, 1st, 2d, 3d, 5th, 6th, 7th, 20th, 21st; Reno, 1st, 19th, 21st; Tonopah, 1st, 5th, 6th, 7th, 20th; Wabuska, 2d, 6th; Winnemucca, 4th, 6th, 7th, 20th, 21st, 23d.

### CLIMATOLOGY OF ELKO, NEVADA.

Elko is situated in the southwestern portion of Elko County, in latitude 40° 51' north, and longitude 115° 45' west. The elevation is 5,063 feet. The record is quite complete for the years preceding 1902, but during the period covered by that and subsequent years, there is only one year, 1903, that has an unbroken record. The temperature record was begun in 1878, while the precipitation record is available from 1870 to the present time.

The warmest month, July, has a normal temperature of 70.9°, while the coldest month, January, has a mean of 22.7°. The warmest month on record is that of July, 1888, when the temperature was 82°; the coldest month was that of January, 1890, when the average temperature was down to 10°. The coolest July was that of 1893 with a mean temperature of 63°, and the warmest January was that of 1900, when the average temperature was 36°. The highest temperature observed during the period for which daily extremes are available, 1888 to 1906, inclusive, was on July 24, 1890, when a maximum temperature of 107° was recorded. The lowest temperature observed during that period was 33° below zero, on December 25, 1891. This gives a range in temperature of 140° during the past nineteen years.

The precipitation averages about the same for the months of July, August and September, being slightly more than one-quarter of an inch. During December, January, February, and March, the average amounts are practically the same, being a fraction over one inch. During the other months, amounts intermediate between those of the winter and summer seasons prevail. Of the summer months, June, July and August, about 40 per cent have no rain recorded. The greatest amount ever recorded in any one month was during January, 1903, when 6.00 inches of precipitation occurred. The longest period without rain on record was during the five months from June to October, inclusive, of 1880. The year 1883 is the driest on record; during the first ten months of this year the precipitation amounted to only 0.37 inch.

#### Monthly and Annual Precipitation.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1870	0.85	0.37	0.73	0.50	0.04	0.59	0.03	0.35	0.00	0.07	0.47	0.61	4.61
1871	0.37	0.59	0.75	0.43	0.64	0.67	0.41	0.00	0.53	T	0.40	0.43	5.22
1872	0.10	0.01	0.00	0.00	0.00	0.11	0.00	0.00	0.08	T	0.30	0.34	0.94
1873	0.22	2.40	0.00	T	0.50	0.00	0.00	0.00	0.00	0.15	T	1.60	4.87
1874	1.28	1.80	0.70	0.00	0.00	0.00	0.30	0.00	0.00	0.15	0.05	0.10	4.38
1875	0.90	0.00	0.20	0.00	0.03	0.00	0.00	0.00	0.00	0.83	2.01	0.32	4.29
1876	1.10	0.10	0.15	0.10	0.00	0.00	1.72	0.00	0.01	1.29	0.34	0.25	5.06
1877	1.62	0.10	1.23	0.12	1.40	0.00	0.50	0.00	0.20	0.10	0.08	0.10	5.45
1878	0.40	0.14	0.41	0.30	0.30	0.52	0.01	0.52	0.63	0.70	0.00	0.00	3.93
1879	2.21	0.09	0.00	0.10	0.00	0.51	0.00	0.00	0.21	0.02	1.10	1.71	5.95
1880	0.10	0.25	0.20	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.30	1.12	3.33
1881	0.81	1.21	0.70	0.20	0.80	0.00	0.01	0.36	0.00	0.36	0.30	0.69	5.44
1882	1.15	0.50	1.20	0.86	0.05	0.00	0.00	0.00	0.03	0.14	0.02	0.70	4.95
1883	0.02	0.05	0.07	0.13	0.01	0.00	0.00	0.01	0.01	0.07	0.30	0.72	1.39
1884	1.20	1.00	1.40	0.72	0.65	2.27	0.00	0.00	1.00	0.59	0.00	3.98	12.81

#### MONTHLY AND ANNUAL PRECIPITATION—Continued.

1885	0.40	0.95	0.00	0.21	0.75	0.25	0.00	0.27	0.28	0.05	1.80	2.33	7.29
1886	2.23	0.43	1.39	0.53	0.24	0.46	0.00	0.00	0.00	0.20	0.60	1.04	7.12
1887	0.02	1.60	0.00	0.70	0.00	0.23	0.40	0.10	0.15	0.00	0.20	0.98	4.38
1888	1.08	0.20	0.64	0.80	1.21	0.00	0.70	0.09	0.25	0.38	0.46	1.35	7.16
1889	0.55	0.02	2.05	0.10	1.46	0.50	0.00	0.20	0.03	2.52	0.51	2.42	10.36
1890	5.53	2.33	2.92	1.14	1.90	0.00	0.77	0.00	0.12	0.00	0.00	0.00	14.71
1891	0.15	0.20	2.43	0.47	1.63	2.21	0.05	0.00	0.40	0.00	0.00	5.46	13.00
1892	0.04	2.40	0.77	0.80	0.00	1.71	0.00	0.00	0.00	1.08	0.60	1.08	8.48
1893	1.50	0.43	0.99	0.80	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.70	5.02
1894	2.75	1.00	0.30	0.15	1.15	1.49	1.19	0.25	0.11	0.60	0.00	3.24	12.23
1895	1.41	0.60	0.32	0.10	1.50	T	T	1.60	0.95	T	0.51	1.00	7.99
1896	3.35	0.05	3.75	0.50	2.71	.....	0.20	0.50	0.25	0.35	1.40	T	.....
1897	0.29	2.50	3.55	0.60	T	0.95	0.06	0.15	T	2.10	1.37	1.15	12.72
1898	0.78	0.04	0.55	1.40	2.76	0.15	T	0.50	0.12	0.90	2.06	0.99	10.25
1899	1.79	0.67	3.03	0.10	0.42	2.00	.....	3.10	T	0.75	0.75	1.75	.....
1900	1.55	1.50	0.73	3.94	1.37	1.04	0.10	0.00	0.10	2.10	3.53	0.12	16.08
1901	1.05	5.50	0.34	0.33	0.45	T	0.50	2.05	T	1.45	0.80	2.39	14.86
1902	0.80	4.21	3.75	1.45	.....	0.05	0.05	0.10	0.00	T	.....	.....	.....
1903	6.00	0.12	2.80	0.50	1.20	1.60	0.00	T	0.15	0.05	2.05	0.35	14.82
1904	1.70	2.20	3.83	1.20	1.55	T	1.90	0.95	1.79	.....	1.60	.....	.....
1905	0.25	0.77	.....	0.23	2.57	.....	.....	0.20	0.30	0.00	0.55	.....	.....
1906	3.90	.....	1.17	.....	1.42	0.56	0.06	0.06	0.32	T	0.23	.....	.....
Means	1.34	1.01	1.20	0.56	0.82	0.51	0.26	0.31	0.23	0.47	0.66	1.18	8.55

#### Monthly and Annual Mean Temperatures.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1878	27	.....	41	48	56	72	76	77	58	42	34	21	.....
1879	18	34	43	52	56	62	71	69	50	41	28	25	46
1880	24	.....	27	35	50	61	.....	.....	54	40	19	31	.....
1881	30	34	37	52	58	69	73	68	55	40	28	25	47
1882	16	18	30	43	56	68	74	73	57	44	29	26	44
1883	15	18	30	40	55	72	76	72	62	41	33	26	45
1884	21	18	35	46	58	66	71	69	52	44	32	29	45
1885	27	35	39	43	56	60	70	68	60	47	39	32	48
1886	28	39	38	50	65	73	80	77	59	44	34	32	52
1887	30	26	42	46	60	72	81	72	60	45	27	22	49
1888	15	36	39	38	65	72	82	.....	70	55	39	32	.....
1889	17	25	42	51	59	70	73	70	54	46	36	31	48
1890	10	25	32	45	56	60	70	66	61	45	32	31	44
1891	21	30	37	48	56	54	74	72	55	40	37	26	46
1892	14	24	39	43	53	64	68	69	63	34	37	25	44
1893	14	20	32	39	50	57	63	69	54	44	35	31	42
1894	24	15	33	46	56	57	66	73	60	46	41	24	45
1895	24	25	36	42	46	56	66	65	55	44	30	20	42
1896	26	37	36	41	48	.....	73	66	56	45	35	26	.....
1897	26	27	31	44	58	59	66	67	56	45	34	23	45
1898	13	31	31	46	47	64	68	66	50	38	31	19	42
1899	30	32	37	41	47	54	67	60	58	47	47	28	45
1900	36	34	40	43	48	64	67	62	52	46	40	31	47
1901	26	30	42	45	54	56	67	62	49	49	41	32	46
1902	23	35	36	44	50	61	65	66	55	46	.....	29	.....
1903	27	19	36	44	52	63	66	56	48	39	30	30	42
1904	21	31	39	44	49	63	67	68	59	.....	30	.....	.....
1905	30	36	42	45	.....	.....	65	62	40	.....	19	.....	.....
1906	24	30	35	53	.....	60	75	73	62	45	32	.....	.....
Means	22.7	28.3	36.4	44.7	54.0	63.1	70.9	68.1	56.8	43.6	33.8	27.0	46.0

Extreme values in *italic type*.

#### Temperature Extremes, 1888 to 1906, Inclusive.

Month.	Maximum.	Year.	Day.	Minimum.	Year.	Day.
January	61	1895	14	-28	1893†	20
February	71	1888	25	-30	1893†	1
March	76	1893	.....	-15	1890	2
April	90	1888	20	8	1895	5
May	96	1897	29	5	1894	.....
June	100	1895	26	20	1895	3
July	107	1890	24	28	1890	11
August	105	1892	1	29	1901	29
September	96	1891*	2	10	1895	22
October	88	1892	5	3	1895	31
November	81	1894	8	-16	1896	.....
December	76	1904	2	-33	1891	25

\*Also in 1892, 9th day. †Also in 1898, 11th day. ‡Also in 1894, 23d day.



## CLIMATOLOGICAL DATA FOR JUNE, 1907.

Stations	Counties.	Elevation (feet).	Length of record (years).	Temperature (degrees Fahrenheit)						Precipitation (inches)						Sky				Prevailing direction of wind	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelting.	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.			
Northern Section.																					
Aura	Elko		0																		
Battle Mountain	Lander	4,511	37	50.3	-16.5	88	30	26	13	36	T	-0.47	T	T	0	6	17	7	NE	Agent So. Pacific Co.	
Beowawe-3	Eureka	4,695	37								0.12	-0.30	0.07	1.2	2	16	0	14		Agent So. Pacific Co.	
Carlin-3	Elko	4,897	37	55.4	-9.3	85	1	35	14	40	0.85	+0.47	0.35	T	3	13	13	1	W	Agent So. Pacific Co.	
Clover Valley†	Elko	6,000	8	52.8		83	27	28	15	44	2.07		0.52	T	10	10	11	9		A. H. Wiseman	
Elko-3	Elko	5,063	37	57.0	-6.1	86	27	32	13	30	1.17	+0.66	0.50	0.0	8	5	0	25	W	Agent So. Pacific Co.	
Fenelon	Elko	6,128	20	51.6	-13.2	80	18	26	16	34					10	12	8		NE	Agent So. Pacific Co.	
Golconda	Humboldt	4,392	29	59.7	-10.2	91	27	33	14	36	1.25	+0.66	0.50	T	6	16	6	8	SW	Agent So. Pacific Co.	
Hallock-3	Elko	5,229	35	55.5	-9.5	80	27	32	17	34	2.00	+1.54	0.50	T	9	9	15	6	NW	Agent So. Pacific Co.	
Humboldt	Humboldt	4,236	36	50.1	-15.7	82	19	34	25	44	0.00	-0.33	0.00	0.0	0	23	0	7		Agent So. Pacific Co.	
Lovelock	Humboldt	3,977	16																	G. S. Webb	
Mill City-3	Humboldt	4,225	19	60.2	-8.4	90	26	36	13	32	0.01	-0.11	0.01	0.0	1	4	14	12	SW	Agent So. Pacific Co.	
Palisade	Eureka	4,821	26																	Agent So. Pacific Co.	
Quinn River Ranch‡	Humboldt	4,850	6	57.6		88	27	31	23	17	0.66		0.34	0.0	4	13	7	10	W	F. M. Payne	
San Jacinto	Elko		3	53.8		84	27	31	16	42	2.92		0.50	1.0	14	12	1	17	W	Moses Jones	
Squaw Valley**-2	Elko	5,100	1	57.8		92	29	27	15	58	2.04		0.52	1.0	9	16	7	7	NW	Chas. D. Dorsey	
Tecoma	Elko	4,812	30	55.2	-12.4	89	29	30	13	56	0.98	+0.41	0.35	0.0	7	1	12	17		Agent So. Pacific Co.	
Wells	Elko	5,623	36																	Agent So. Pacific Co.	
Winnemucca	Humboldt	4,432	29	58.6	-4.7	90	27	33	14	38	1.16	+0.57	0.33	T	11	18	8	4	SW	U. S. Weather Bureau	
Eastern Section.		Means		55.4							1.09			0.2	6	12	8	10	W		
Hamilton	White Pine	7,977	1	47.4		75	27	18	14	41	3.07		0.60	18.0	14	16	6	8	S	Mrs. L. C. Muir	
McGill	White Pine		0	54.6		84	27	25	14	44	1.78		0.69	4.0	11	10	6	14	S	W. G. Perkins	
Central Section.		Means		51.0							2.42			11.0	12	13	6	11	S		
Austin	Lander	6,594	19																	Dr. W. H. Heinzmann	
Eureka	Eureka	6,500	5	53.6		85	27	21	14	39	3.86		0.80	11.0	13	7	8	15	S	Clay Simms	
Potts	Nye	6,990	15	54.0		88	28	25	16	49	2.10		1.00	8.0	10	4	9	17	N	Miss Mamie Potts	
Western Section.		Means		53.8							2.98			9.5	12	5	9	16	S		
Carson Dam†† a	Churchill	4,032	1	63.0		97	1	35	14	39	0.99		0.51	0.0	4	6	17	7	NW	B. L. Miller	
Fallon	Churchill	3,965	3	62.0		93	27	33	14	47	0.66		0.22	0.0	7	21	5	4		U. S. Reclamation Serv.	
Fernley ††	Lyon		0	61.6		90	26	30	14	43	1.03		0.43	0.0	4	18	5	7	NW	U. S. Reclamation Serv.	
Gardnerville.	Douglas	4,830	9	55.7		82	2	28	14	46	0.50		0.20	0.0	3					Lawrence Ezell	
Hazen-2	Churchill	4,050	1	62.8		92	27	31	15	40	0.07		0.02	0.0	6	19	8	3	NW	U. S. Reclamation Serv.	
Leetville‡	Churchill	4,020	1	62.8		93	27	36	13	43	0.08		0.05	0.0	3	13	11	6	W	U. S. Reclamation Serv.	
Lewers' Ranch†	Washoe	5,500	20	55.6	-4.5	84	1	29	14	42	2.35	+2.01	1.65	T	4	6	18	6		Ross Lewers	
Reno	Washoe	4,532	37	57.2	-3.8	86	26	33	15	40	0.63	+0.29	0.27	T	6	18	9	3	W	Central Office	
Soda Lake ‡	Churchill	4,005	1																	U. S. Reclamation Serv.	
Stillwater	Churchill	3,895	1																	E. J. Freeman	
Wabuska	Lyon	4,347	5	58.2		89	27	31	16	45	0.38		0.30	T	2	15	15	0	NW	J. G. Young	
Wadsworth	Washoe	4,077	36																	Agent So. Pacific Co.	
Southern Section.		Means		59.9							0.76			T	4	14	11	5	NW		
Columbia	Esmeralda	5,750	1	60.7		89	27	28	14	40	0.83		0.52	T	3	17	9	4	S	Will W. Thompson	
Geyser	Lincoln		3	52.0		85	28	25	17	47	1.54		0.82	T	3	10	7	13	S	A. D. Campbell	
Jean	Lincoln	2,074	0								0.00		0.00	0.0	0	22	6	2	W	Agent Salt Lake Route	
Logan	Lincoln	1,700	1	75.6		111	28	44	16	53	0.00		0.00	0.0	0	18	9	3	S	Chas. Arney	
McAfee's Ranch* a	Esmeralda	4,835	4	52.4		92	29	19	12	62	T		T	T	0	14	7	9	N	G. A. McAfee	
Mina	Esmeralda	4,600	1	57.5		92	29	32	3	47	0.00		0.00	0.0	0	11	13	6	SW	Agent So. Pacific Co.	
Palmetto	Esmeralda	6,780	18	53.2	-6.6	86	30	18	15	47	2.42	+1.82	0.85	4.0	5	12	13	5	W	Wm. Oothout, Jr.	
Pioche	Lincoln	6,100	3																	A. A. Carman	
Tonopah	Nye	6,000	1	59.3	-0.9	86	27	27	14	34	0.58		0.42	T	5	12	12	6	NW	U. S. Weather Bureau	
Means				58.7							0.67			0.5	2	14	10	6	S		
State Means and Extremes.					56.9	-6.3	111	28	18	14	62	1.09	+0.67	1.65	1.4	5	13	9	8	W	

REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station indicates the number of days missing from the record; for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

†Postoffice—Wells. †Postoffice—Franktown. †Postoffice—Amos. \*Postoffice—Dyer †Postoffice—Fallon. \*\*Postoffice—Golconda. ††Postoffice—Hazen. ††Postoffice—Wadsworth.

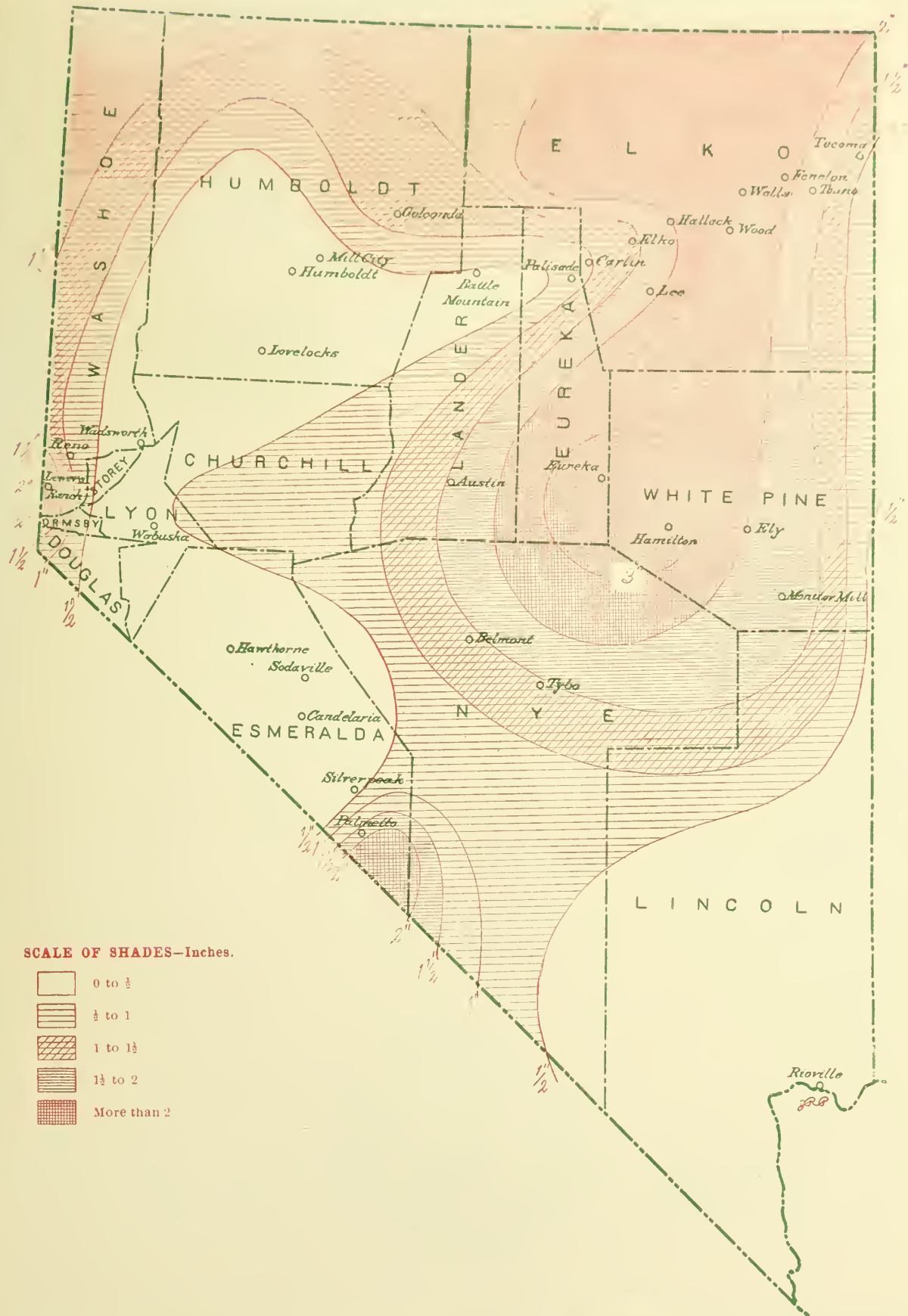


Stations.	Day of Month.																															Monthly means.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Aurora.....	Max.																															
Austin.....	Min.																															
Battle Mountain.....	Max.	60	64	65	68	68	67	65	67	68	50	50	50	48	48	50	55	57	60	60	62	64	70	70	72	78	85	86	87	88		
Carson Dam.....	Min.	30	31	32	33	35	35	33	35	36	28	27	26	26	26	26	30	32	35	35	35	36	38	38	39	42	53	53	55	56		
Flower Valley.....	Max.	50	54	58	61	61	61	61	61	76	76	71	67	64	62	60	78	84	85	87	87	87	88	89	89	89	89	84	81	86		
Columbia.....	Min.	50	63	75	77	67	58	65	63	71	67	54	52	42	46	28	32	35	40	42	42	37	31	34	36	36	39	53	51	48		
Dureka.....	Max.	86	82	81	80	73	64	68	79	80	79	68	58	51	59	69	73	83	83	83	84	81	71	72	78	78	89	88	87	87		
Gallion.....	Min.	47	45	44	40	44	40	34	37	43	47	31	30	28	29	31	33	39	43	47	47	68	72	82	82	91	93	90	91	89		
Hernley.....	Max.	58	49	54	52	45	51	40	45	47	64	39	35	33	34	34	37	46	59	54	46	39	41	40	42	44	49	58	53	50		
Hartsville.....	Min.	58	49	54	52	45	51	40	45	47	64	39	35	33	34	34	37	46	59	54	46	39	41	40	42	44	49	58	53	50		
Hazen.....	Max.	86	83	85	80	69	64	74	78	75	70	66	48	46	63	72	80	86	89	86	79	68	68	68	68	68	90	86	84	86		
Humboldt.....	Min.	59	52	58	55	50	45	45	48	44	46	40	31	30	45	41	37	46	59	58	39	39	44	46	42	48	48	56	50	48		
Leetville.....	Max.	80	82	78	77	80	76	72	78	70	60	42	42	42	66	68	68	80	81	82	80	70	72	79	80	82	81	80	81			
Logan.....	Min.	73	78	80	75	60	58	65	64	64	72	60	55	53	55	60	72	78	75	76	70	71	72	74	78	83	85	82	83			
McAfee's Ranch.....	Max.	42	40	40	38	34	39	69	72	78	35	32	30	27	28	25	35	40	36	32	27	32	30	31	32	37	37	42	37			
McGill.....	Min.	48	78	81	80	76	59	60	69	72	58	53	50	58	65	75	80	82	83	84	68	64	68	70	76	83	91	88	81	85		
Palmetto.....	Max.	56	55	57	51	49	40	49	47	50	44	35	33	36	35	35	35	45	50	51	46	41	46	48	49	55	57	55	57			
Pioche.....	Min.	71	71	71	68	68	65	63	64	64	56	50	44	41	45	53	60	60	71	70												

Stations.	Day of Month.																															Monthly means.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Aurora.....	Max.																																
Austin.....	Min.																																
Battle Mountain.....	Max.	60	64	65	68	68	67	65	67	68	50	50	50	48	48	50	55	57	60	60	62	64	70	70	72	78	85	86	87	88			
Carson Dam.....	Min.	30	31	32	33	35	35	33	35	36	28	27	26	26	26	26	30	32	35	35	35	36	38	38	39	42	53	53	55	56			
Flower Valley.....	Max.	97	85	58	77	69	61	48	51	76	76	71	67	64	62	60	78	84	85	87	52	77	66	68	71	79	89	84	81	86			
.....	Min.	50	54	59	58	53	51	45	48	51	51	49	36	35	40	41	44	49			75	52	44	44	44	50	57	64	55	49			
.....	Max.	69	75	77	67	67	58	65	63	71	67	54	52	42	46	62	70	77	75	77	76	53	56	56	67	75	83	81	78	78			
Columbia.....	Min.	42	40	37	41	43	37	39	42	38	47	36	32	32	28	28	32	35	40	42	42	37	31	72	78	86	89	88	87	87			
Dureka.....	Max.	86	82	80	73	64	60	68	79	80	79	58	58	54	59	69	69	83	83	83	84	81	74	72	78	86	89	88	86	86			
.....	Min.	48	47	47	47	47	47	48	47	47	58	38	35	28	30	34	41	70	75	52	54	51	49	57	59	67	80	85	81	77			
Gallion.....	Max.	79	72	77	68	59	56	58	62	74	71	56	49	41	49	61	70	76	75	75	65	57	33	33	34	45	52	50	41	48			
.....	Min.	47	45	44	40	44	40	34	37	39	43	31	30	21	29	31	33	39	43	47	43	68	72	40	42	44	49	58	53	50			
Peruley.....	Max.	90	86	85	81	73	63	74	79	80	75	62	58	52	64	34	37	46	59	54	46	39	41	40	42	44	49	58	53	50			
.....	Min.	58	49	54	52	45	47	44	44	44	64	39	35	33	34	72	80	86	89	86	79	64	68	70	82	90	90	86	84	86			
Hamilton.....	Max.	86	83	85	80	69	64	74	78	75	70	66	48	46	63	41	37	46	59	58	39	39	44	46	48	48	56	50	48				
.....	Min.	59	52	58	55	50	45	45	48	44	46	40	31	30	45	41	37	46	59	58	39	39	44	46	48	48	56	50	48				
Hardenville.....	Max.	80	82	78	77	80	76	72	78	70	60	44	42	42	66	68	68	80	81	82	80	70	70	72	79	80	82	81	80	81			
.....	Min.	73	78	80	42	40	42	42	40	38	34	32	31	28	38	40	41	42	42	41	42	34	36	38	42	41	40	42	46	44			
Jeyser.....	Max.																																
.....	Min.																																
Jolconda.....	Max.	42	40	40	38	34	30	35	32	32	35	32	30	27	28	25	35	40	36	32	27	32	30	31	32	37	37	42	37	36			
.....	Min.	84	78	81	80	76	69	69	72	78	53	50	53	50	58	65	75	80	82	83	78	64	68	70	76	83	91	88	81	85			
Hamilton.....	Min.	56	55	47	52	51	49	40	49	47	50	41	35	33	36	35	35	45	50	51	46	41	48	44	49	59	55	57	55	53			
.....	Max.	71	71	71	68	68	68	65	63	64	56	50	44	41	45	53	60	60	71	70	66	64	58	68	68	72	75	75	65	73			
.....	Min.	30	35	39	34	35	35	31	32	36	30	27	26	18	20	24	28	30	37	35	32	30	31	31	28	36	46	48	33	36			
Hazen.....	Max.	87	88	88	85	85	64	65	75	74	66	60	56	56	61	70	77	86	89	87	75	68	68	72	80	91	92	90	86	89			
.....	Min.	60	52	62	58	50	57	43	52	51	51	35	33	31	44	46	54	54	55	47	38	42	42	43	43	51	52	56	54	54			
Humboldt.....	Max.																																
.....	Min.																																
Mean.....	Max.	95	94	95	93	90	88	87	90	93	97	92	86	80	85	77	82	92	96	95	94	96	84	90	90	94	99	103	104	102	100		
.....	Min.																																
Leetville.....	Max.	87	87	88	89	82	69	64	75	78	79	70	62	53	62	72	80	88	88	87	80	68	70	73	80	90	93	90	87	89			
.....	Min.	57	55	58	52	52	51	43	46	50	49	50	42	36	37	43	43	52	54	57	57	42	43	47	52	57	52	57	54	48			
Lewers' Ranch.....	Max.	84	76	78	76	73	69	69	70	70	71	59	52	43	55	60	70	78	80	81	76	69	64	67	72	80	82	81	75	76			
.....	Min.	42	45	44	42	41	48	39	34	41	44	39	32	33	29	29	31	38	42	45	45	42	34	35	40	44	46	45	48				
Las Vegas.....	Max.																																
.....	Min.																																
Logan.....	Max.	100	100	98	95	95	94	87	91	96	92	86	82	81	80	89	98	101	101	100	95	92	95	95	98	103	108	111	104	105			
.....	Min.	64	65	62	58	59	58	64	57	60	64	68	50	51	58	44	60	58	61	60	58	67	54	54	57	59	62	58	70	66			
Lovelock.....	Max.																																
.....	Min.																																
McAfee's Ranch.....	Max.	83	81	79	74	70	67	69	75	70	64	61	57	62	70	78	83	85	79	79	69	74	72	79	85	88	90	92	90	45	35		
.....	Min.	33	35	32	36	27	29	25	27	27	30	19	21	23	19	20	21	25	35	32	35	31	29	30	26	38	32	40	45	81			
McGill.....	Max.	75	69	71	77	75	61	60	61	64	72	66	53	52	60	66	73	78	78	72	75	74	66	65	70	78	84	82	81	81			
.....	Min.	47	45	43	49	41	33	40	41	40	48	32	25	27	28	28	33	35	41	40	46	40	46	40	46	50	52	50	39	39			
Palmetto.....	Max.	82	82	83	73	63	60	55	58	68	72	65	58	53	40	55	65	73	78	80	83	70	63	66	76	84	86	84	86	86			
.....	Min.	44	40	41	40	39	43	37	28	35	50	33	25	20	18	23	30	35	40	45	40	28	32	30	34	40	44	52	53	39			
Pioche.....	Max.																																
.....	Min.																																
Potts.....	Max.	81	82	79	80	75	61	61	57	69	75	72	59	50	54	68	76	80	78	80	78	78	65	64	74	85	86	88	81	85			
.....	Min.	48	41	42	44	42	40	31	37	33	37	34	31	28	26	25	29	33	39	40	36	32	38	30	31	36	38	48	48	40			
Quinn River Ranch.....	Max.	86	80	82	84	78	65	68	71	74	69	56	52	54	64	70	79	75	87	79	63	63	65	61	81	87	88	83	81	85			
.....	Min.	49	49	40	45	40	45	43	35	49	44	47	41	33	41	41	39	35	40	47	44	33	31	35	35	41	41	50	45	43			
Reno.....	Max.	83	80	82	77	74	65	58	70	74	62	51	42	53	56	69	77	84	85	81	72	65	64	72	79	86	84	79	80				
.....	Min.	49	47	44	47	46	46	41	40	44	44	38	34	33	33	33	38	44	48	47	38	37	37	39	46	46	49	55	46	49			
San Jacinto.....	Max.	77	75	74	77	68	60	66	64	68	69	64	53	48	61	71	74	73	75	73	73	63	53	53	65	76	84	77	84				
.....	Min.	45	44	48	36	37	37	44	46	45	36	40	32	32	31	32	36	37	48	42	42	46	31	41	45	45	56	44	42				
Squaw Valley.....	Max.	80	82	86	86	80	76	68	76	78	68	64	58	51	64	75	84	86	86	88	78	72	70	64	80	96	88	90	92	90			
.....	Min.	52	32	42	46																												



TOTAL PRECIPITATION FOR JUNE, 1907.





## DAILY PRECIPITATION FOR JUNE, 1907.

Stations.		Day of Month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Northern Section.																																		
Aura													T	T																			T	0.12
Battle Mountain													0.07	0.05																				0.85
Beowawe												0.25	0.35	0.25																			2.07	
Carlin	0.10	0.25										0.22	0.12	0.52	0.03						T	T	0.36		0.13								1.74	
Clover Valley	0.25	0.06										0.50	0.06									0.06			0.40								1.25	
Golconda											T	*	0.50								0.15				T	T						2.00		
Halleck	0.20			0.10	T	0.30	0.40				0.50	T	0.10	0.10	T						0.20	0.10	T	T	T							0.00		
Humboldt																																	0.01	
Lovelock													0.01																				0.61	
Mill City																																	0.66	
Palisade				0.60		0.22					0.06		0.21	0.13							0.30				0.09								2.92	
Paradise Valley											0.07										0.05				0.10	0.12							2.04	
Quinn River Ranch							T	0.20	0.34		0.03	0.45	0.04	0.61	0.02					0.19	0.21	0.09		0.10	0.14							0.98		
San Jacinto	0.06			0.50	0.09	0.41					0.04		0.47	0.08							T			0.22	0.14							1.16		
Squaw Valley				0.04	0.52	0.49	0.04				T	T	T	0.20	0.02					0.04		0.05	0.07	T								3.07		
Tecoma							T	0.25	0.35																							1.78		
Wells																																	3.86	
Winnemucca	T			0.01		0.09	0.12				0.19	0.07	0.22	0.15						0.02	0.05		0.10	0.13								2.10		
Eastern Section.																																		
Hamilton	0.01	0.02	0.02				0.02	0.40	0.35	0.35	0.05	0.60	0.25	0.55	0.05					0.10		0.30										0.99		
McGill	0.04	T	T				0.02	0.12	0.03	0.03	T		0.69	0.08	0.44	0.01				0.07		0.25	T									0.66		
Central Section.																																		
Austin	0.13	0.02					0.07	0.04	0.51	0.60		0.03	0.80	0.50	T	T				T	0.20	0.61	0.32	0.03								1.03		
Eureka													1.00	0.05	0.05					T		0.05		0.10								0.50		
Potts	0.10						T	0.05	0.20	0.25	0.25									T												0.07		
Western Section.																																		
Carson Dam																																0.99		
Fallon	T												0.28								0.10											0.66		
Fernley													0.20	0.05							0.10											1.03		
Gardnerville		0.02					T	0.18	T				0.40								0.43	T											0.50	
Hazen				0.20							0.20	T	T	T							0.10			0.01								0.07		
Leetville	0.01												0.01								0.01			0.01	0.01							0.08		
Lewers' Ranch	T	T	T	T	T	T	T	T	T	T	*	1.65	T	0.35							T	0.30										2.35		
Reno												0.08	0.27	T							0.20											0.63		
Soda Lake	0.02			0.01																													0.38	
Stillwater																																	0.83	
Wabuska																																	1.54	
Wadsworth																																	0.00	
Southern Section.																																		
Columbia																																	0.00	
Geyser																																	0.00	
Jean												0.13	T																				2.42	
Las Vegas												T																					0.58	
Logan																																		
McAfee's Ranch																																		
Mina																																		
Palmetto																																		
Pioche	T	T		T	0.28	0.74	0.85				0.15			0.40	T																			
Tonopah	0.01		T		0.01	0.10	0.42				0.04	T	T	T																				

T indicates trace. \* Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, - J. G. MCCARTHY, SUPT.



1907



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U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR JULY, 1907.

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NEVADA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

IN COOPERATION WITH THE

NEVADA STATE WEATHER SERVICE

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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UNDER DIRECTION OF

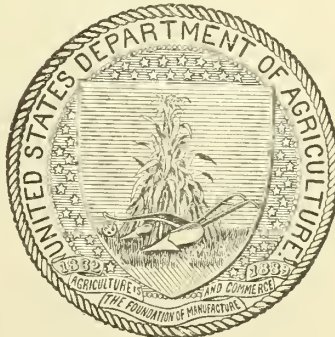
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

HARRY O. GEREN

SECTION DIRECTOR

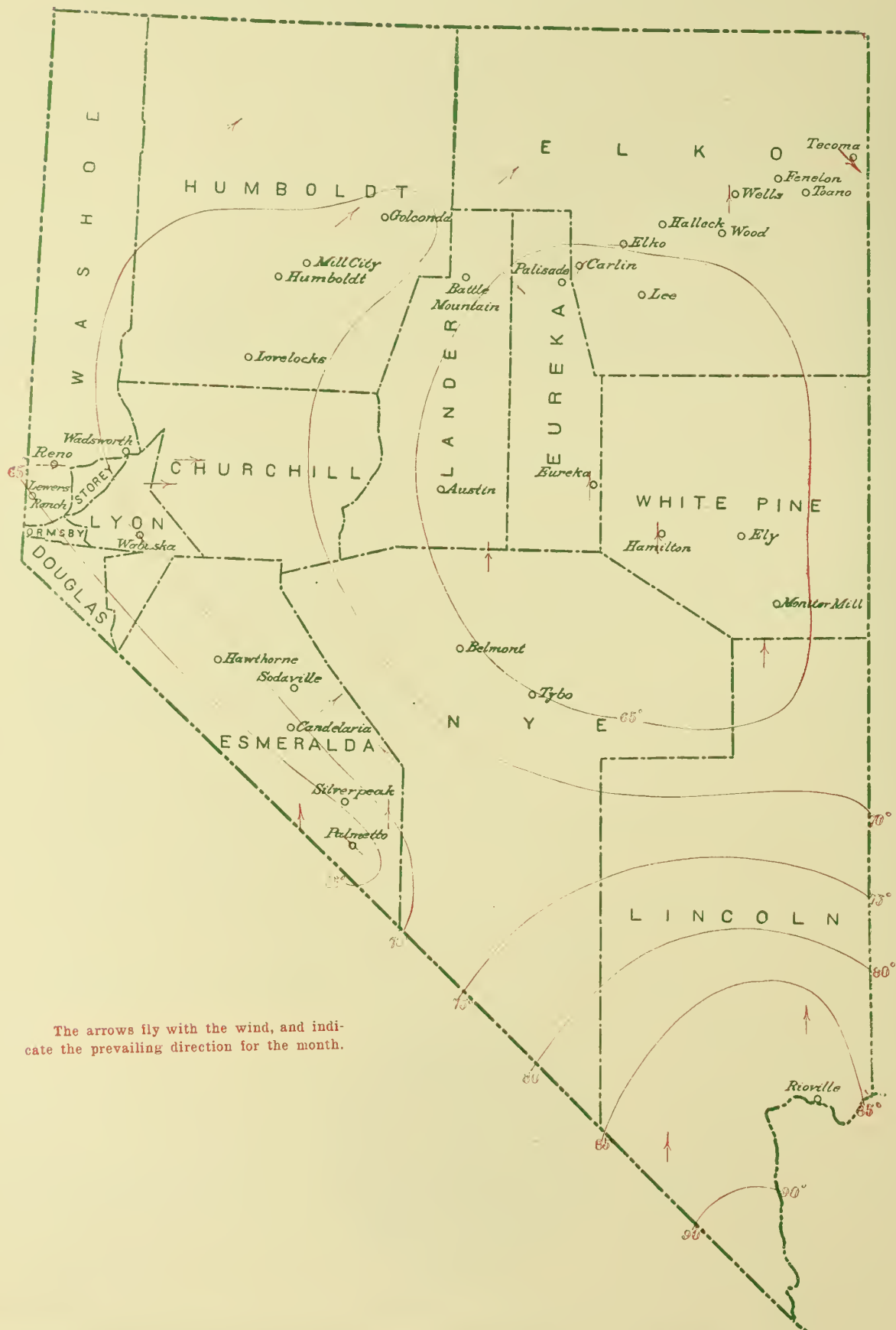


CARSON CITY, NEVADA:

September 4, 1907



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR JULY, 1907.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**  
 OF THE  
**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,  
 HARRY O. GEREN, Section Director.

VOL. XXI.

RENO, NEVADA, JULY, 1907.

No. 7.

**GENERAL SUMMARY.**

Considering the fact that the month was July, the weather was generally pleasant. It was unusually cool and dry. There were four other instances on record, 1895, 1902, 1903, and 1904, when the average temperature for the month was lower, and but two others, 1903 and 1905, when the precipitation was less.

**Temperature.**

The alternations of warm and cool periods were quite numerous, but not very marked. The main periods of warm weather were from the 1st to the 6th and during the last few days of the month. There was one very decided period of cool weather, occurring from the 14th to the 17th, inclusive. Nearly all of the maximum and minimum temperatures for the month were recorded during these periods, respectively.

The mean temperature for the State was 69.2°, which is 1.2° lower than the normal for the month, and 5.5° below the mean for the corresponding month of 1906. The highest monthly mean temperature was 86.4° at Logan, Lincoln County. The lowest monthly mean temperature was 62.3° at McAfee's Ranch, Esmeralda County. The highest temperature was 113° at Logan, on the 5th, and the lowest was 27° at Squaw Valley on the 14th. The greatest daily range in temperature at any station was 68° at Squaw Valley on the 20th and 21st.

**Precipitation.**

What little precipitation fell, occurred generally on the 2d and 3d, and from the 24th to the 27th, inclusive. The average amount for the State was only 0.06 inch, which is 0.29 inch less than the normal for the month, and 0.62 inch less than the average for the corresponding month in 1906. The greatest monthly amount was 0.60 inch at Hamilton, White Pine County, while at eight stations there was no precipitation at all. The greatest amount recorded in twenty-four hours was 0.35 inch at Potts, Nye County, on the 25th. The average number of days with 0.01 inch or more of precipitation was 1.

**Wind.**

The prevailing direction of the wind was south. The average hourly velocity at Reno was 5.9 miles; at Tonopah it was 7.9 miles, and at Winnemucca it was 5.2 miles. The maximum velocity for a period of five minutes at Reno was at the rate of 28 miles per hour, southwest, on the 14th; at Tono-

pah it was 29 miles, west, on the 14th, and at Winnemucca it was 32 miles, southwest, on the 3d.

**Sunshine and Cloudiness.**

The average number of clear days was 22, partly cloudy days 6, and cloudy days 3.

**COMPARATIVE STATE DATA FOR JULY.**

Year.	Temperature			Average precipita- tion.	With precipitation.	Number of days			Prevailing wind.
	Mean.	Highest.	Lowest.			Clear	Partly cloudy	Cloudy	
1890	74.0	118	28	0.15					sw
1891	70.4	102	26	0.53	3				s
1892	70.6	115	30	0.67	1				w
1893	70.3	110	24	0.40	2				sw
1894	71.7	108	32	0.75	5				s
1895	62.9	109	14	0.13	1	24	6	4	w
1896	72.7	112	33	0.79	2	22	6	3	w
1897	69.4	116	25	0.28					
1898	73.5	114	30	0.12	1	23	6	2	w
1899	72.6	106	34	0.14	2	22	5	4	w
1900	70.6	113	33	0.37	1	23	4	4	w
1901	70.8	109	31	0.31	2	21	6	4	sw
1902	67.9	116	25	0.44	2	21	5	5	sw
1903	65.4	111	26	0.01	1	27	3	1	sw
1904	68.7	110	30	0.51	3	19	8	4	sw
1905	72.1	109	31	0.03	1	24	5	2	sw
1906	74.7	114	32	0.68	4	17	9	5	w
1907	69.2	113	27	0.06	1	22	6	3	s
Entire period	70.4	118	14	0.35	2	22	6	3	sw

**MISCELLANEOUS PHENOMENA.**

*Hail*—Fenelon, 12th.

*High Winds*—Carson Dam, 2d, 3d, 14th; Columbia, 2d, 3d, 7th, 14th, 27th, 28th, 29th; Eureka, 19th; Halleck, 14th; Palmetto, 2d, 3d, 4th, 8th, 16th, 28th, 29th; Potts, 2d, 3d, 4th, 5th, 7th, 8th, 14th, 19th; Reno, 14th; Squaw Valley, 3d; Tonopah, 14th; Wabuska, 19th; Winnemucca, 3d.

*Killing Frosts*—Squaw Valley, 13th, 14th, 15th, 16th, 20th.

*Thunderstorms*—Eureka, 24th, 25th, 26th, 30th; Fenelon, 12th, 27th; Hamilton, 11th, 12th, 13th, 24th, 25th, 26th, 27th, 31st; McAfee's Ranch, 31st; Palmetto, 31st; Potts, 24th, 25th, 26th, 27th, 30th, 31st; Reno, 27th, 28th; San Joacinto, 14th, 27th; Tonopah, 24th; Wabuska, 11th; Winnemucca, 3d, 27th.

**DELAYED REPORT.**

**SODA LAKE** (Churchill County) report for June, 1907—Mean maximum temperature, 79.6°; highest, 95°, on the 28th. Total precipitation, 0.55 inch; greatest amount in twenty-four consecutive hours, 0.30 inch, on the 14th; number of days with .01 inch or more of precipitation, 4. Number of clear days, 22; partly cloudy, 0; cloudy, 9.

**CLIMATOLOGY OF PALISADE, NEVADA.**

Palisade is located in the northern portion of Eureka County, in latitude 40° 39' north, and longitude 116° 12'



west. The elevation is 4,821 feet above sea level. The station is situated in a cañon with high cliffs on the east and north sides, and high hills to the south and west. The Humboldt River flows within 100 feet of the station. The precipitation record is very complete, there being but two months missing during the twenty-nine years; those months are November and December, 1906. The temperature data are unavailable for the years 1886 and 1887, but for the other years, 1879 to 1906, inclusive, the record is quite complete.

The normal increase in temperature during the year, progresses from a mean of 25.1° in January to one of 73.6° in July. The coldest month on record is that of January, 1888, when the mean temperature was 12.6°, while the warmest month is that of August, 1888, with a mean of 80.1°. It will be noticed from this that the coldest and warmest months on record both occurred during the same year. The warmest January was in 1897, with a mean temperature of 34°, and the coolest July was in 1879, when the average was 62°. The highest temperature ever recorded was 110° during July, 1889, and the lowest, 30° below zero, in January, 1888, giving a range of 140° for the station during the 19 years for which the daily extremes are available.

The normal precipitation is greatest in February, 1.26 inches, and least in July, with 0.19 inch. December, January, February and March are the wettest months, and July, August and September the driest. Of the months of July, 62 per cent have had no precipitation whatever. The year 1891 had the largest amount of precipitation, 14.36 inches, while 1886 had the least amount with 4.09 inches. From 1878 to 1884, inclusive, the annual precipitation was, almost without failure, alternately above and below normal. From 1886 to 1888, inclusive, there was a deficiency which was a little more than made up during the following years from 1889 to 1894, inclusive. Extending from 1895 through 1903, was experienced a period of deficient precipitation, with the single exception of the year 1899. The longest time without rain was for four months, from May to August, inclusive, 1895. The wettest four-month period (December, January, February and March) occurred in 1889-1890, 9.77 inches of precipitation being recorded during that time.

Monthly and Annual Precipitation.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1878	1.25	0.97	3.32	0.74	0.75	1.63	0.00	1.15	1.20	0.75	0.00	0.02	11.78
1879	2.43	0.98	0.76	1.75	0.10	1.04	0.00	0.00	0.10	0.05	0.35	1.83	9.39
1880	0.61	0.55	0.10	1.23	0.49	0.60	0.05	0.00	0.00	0.00	0.27	2.75	6.05
1881	2.59	1.76	1.48	0.62	1.06	0.00	0.85	0.67	0.13	0.94	0.50	1.65	12.25
1882	1.53	0.70	1.60	0.25	0.35	0.50	0.00	0.00	0.82	2.10	1.22	0.67	9.74
1883	1.20	0.40	0.00	0.99	0.15	0.15	0.00	0.10	0.00	0.47	0.47	0.60	4.53
1884	0.48	1.00	2.17	0.60	1.30	1.72	0.05	0.22	1.06	1.60	0.00	2.07	12.27
1885	1.00	1.78	0.00	1.09	0.89	1.06	0.00	0.25	0.20	0.10	1.88	0.60	8.85
1886	0.30	0.54	0.75	0.28	0.00	0.10	0.00	0.00	0.10	0.40	1.25	0.37	4.09
1887	0.45	2.12	0.00	0.76	T	0.10	0.00	0.00	0.50	0.00	0.10	0.90	4.93
1888	0.85	0.15	0.10	0.19	0.32	0.62	0.00	0.00	0.05	0.30	0.37	1.35	1.30
1889	0.80	0.00	0.70	0.30	1.20	0.23	0.00	0.00	0.05	2.41	0.36	2.50	8.64
1890	2.47	1.70	3.10	1.00	1.70	0.00	0.00	0.35	0.15	0.15	0.20	0.30	11.12
1891	0.30	1.90	2.70	1.20	1.50	1.90	0.00	0.00	0.30	0.06	0.00	4.50	14.36
1892	1.30	0.80	1.40	1.00	1.50	1.25	0.00	0.00	0.10	0.00	0.30	0.30	7.95

MONTHLY AND ANNUAL PRECIPITATION—Continued.

1893	1.80	0.95	2.60	1.35	0.35	0.15	0.30	0.00	0.45	0.64	0.60	0.95	10.14
1894	2.20	2.80	1.25	0.89	1.45	0.51	1.33	0.36	0.70	0.00	0.00	2.37	13.86
1895	1.20	1.40	0.60	0.18	0.00	0.00	0.00	0.00	0.25	0.00	0.70	0.80	5.13
1896	0.27	0.09	1.85	0.29	1.10	0.00	0.00	0.60	0.10	0.05	1.30	0.27	5.92
1897	0.71	2.45	0.65	0.37	0.20	0.55	0.00	T	0.00	1.50	0.80	0.33	7.56
1898	0.28	0.30	0.46	0.75	0.50	0.00	0.00	0.50	0.30	0.00	1.44	0.41	4.94
1899	0.70	1.35	2.78	0.47	1.10	2.62	0.11	1.17	0.00	1.00	1.26	1.20	13.76
1900	1.72	1.60	0.40	1.25	0.84	0.00	0.15	0.00	0.00	0.35	0.75	0.06	7.12
1901	0.65	2.46	0.39	0.50	0.20	0.00	0.32	0.21	T	0.05	0.54	0.80	6.12
1902	0.57	2.98	1.85	1.07	0.08	0.18	0.96	0.00	0.00	0.39	0.45	0.20	8.73
1903	1.69	0.10	0.91	0.00	0.87	0.92	0.00	0.18	0.08	0.00	0.77	0.00	5.52
1904	0.65	2.30	0.63	0.82	0.70	0.00	1.29	0.44	1.28	2.20	0.00	0.00	10.31
1905	0.00	1.12	1.39	0.97	1.60	0.00	0.00	0.25	0.00	0.00	1.10	0.90	7.33
1906	0.54	1.35	1.19	1.45	1.83	1.11	0.02	T	0.30	0.36	.....	.....	.....
Means	1.05	1.26	1.21	0.77	0.76	0.56	0.19	0.22	0.28	0.55	0.61	1.02	8.48

Monthly and Annual Mean Temperatures.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1879	23	37	47	49	55	61	62	65	54	41	29	26	46
1880	26	26	29	42	51	61	66	60	51	40	23	32	42
1881	32	35	36	47	55	74	76	70	62	40	31	29	49
1882	20	27	34	46	59	69	77	74	60	47	28	29	48
1883	19	26	45	46	59	73	77	71	60	42	30	30	48
1884	25	20	38	47	63	73	78	74	55	41	29	28	48
1885	24	37	42	52	59	63	76	74	62	51	41	31	51
1886	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1887	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1888	13	35	40	58	70	77	76	80	72	48	36	31	53
1889	14	27	45	57	58	74	78	76	62	52	39	34	51
1890	16	29	36	48	61	63	79	71	61	47	35	32	48
1891	23	29	33	48	56	61	69	72	61	51	42	24	47
1892	21	27	39	45	55	64	74	72	65	49	41	32	49
1893	23	25	35	41	48	65	76	78	59	53	33	33	47
1894	25	20	36	46	56	57	78	75	56	54	42	28	48
1895	20	21	31	47	59	56	71	78	70	46	34	30	47
1896	31	35	43	40	48	70	80	70	65	56	36	33	51
1897	34	35	32	46	62	63	77	77	68	52	41	32	52
1898	25	39	37	53	58	68	71	76	64	36	31	23	48
1899	31	31	36	53	56	69	76	65	64	46	40	23	49
1900	32	33	40	49	56	69	68	61	50	40	30	.....	.....
1901	29	29	38	50	60	70	79	76	56	45	35	29	50
1902	32	33	33	41	54	64	65	68	58	49	40	33	48
1903	30	18	36	46	52	63	.....	76	66	62	.....	33	.....
1904	25	35	40	44	54	63	68	69	60	49	42	30	48
1905	32	34	41	47	51	60	68	68	62	.....	34	19	.....
1906	28	34	38	49	54	59	74	70	58	46	.....	.....	.....
Means	25.1	29.9	37.7	47.6	56.5	65.6	73.6	72.0	61.2	47.7	35.5	29.4	48.5

† Extreme values in *italic* type.

Temperature Extremes, 1888 to 1906, Inclusive.

Month.	Maximum.	Year.	Day.	Minimum.	Year.	Day.
January	60	1894	.....	-30	1888	.....
February	64	1901*	28	-20	1901§	9
March	74	1906	21	-1	1898	16
April	92	1889	.....	9	1906	4
May	100	1889	.....	24	1906	1
June	104	1900	22	29	1902	2
July	110	1889	.....	35	1902	3
August	104	1893†	.....	35	1902¶	31
September	99	1905	23	21	1902	26
October	87	1903‡	22	8	1906	22
November	89	1903	3	-5	1896	28
December	69	1902	26	-16	1905	23

\*Also in 1904, 25th day. †Also in 1894 and 1895. ‡Also in 1895. §Also in 1890. ||Also in 1896. ¶Also in 1906, 25th day.



## CLIMATOLOGICAL DATA FOR JULY, 1907.

Stations	Counties.	Elevation feet	Length of record years	Temperature (degrees Fahrenheit)						Precipitation (inches)				Sky				Prevailing direction and amount of wind	Observers.	
				Mean.	Departure from the normal.	Highest.	Date	Lowest.	Date	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelting.	Number rainy days.	Number clear days.	Number partly cloudy days.			Number cloudy days.
Northern Section.																				
Aura .....	Elko .....		0																	E. J. Clark
Battle Mountain .....	Lander .....	1,511	37																	Agent So. Pacific Co.
Boowawe-3 .....	Eureka .....	1,035	37								0.00	-0.22	0.00	0.0	0					Agent So. Pacific Co.
Carlin-3 .....	Elko .....	1,897	37	63.6	-15.4	90	25	12	10	43	T	-0.17	T	0.0	0	18	2	11	SW	Agent So. Pacific Co.
Clover Valley† .....	Elko .....	6,000	8	65.2		90	30	41	6	44	T		T	0.0	0	23	8	0		A. H. Wiseman
Elko-3 .....	Elko .....	5,063	37	69.0	-1.9	90	10	50	16	35	0.00	0.26	0.00	0.0	0	18	0	13	W	Agent So. Pacific Co.
Fenelon .....	Elko .....	6,128	20	70.8	-1.8	95	22	46	2	30	0.08	+0.02	0.08	0.0	1	17	0	14		Agent So. Pacific Co.
Golconda .....	Humboldt .....	4,392	29	71.8	-6.5	95	30	42	15	40	0.00	-0.08	0.00	0.0	0	26	5	0	SW	Agent So. Pacific Co.
Halleck-3 .....	Elko .....	5,229	35	65.4	-7.5	92	30	38	2	49	T	-0.10	T	0.0	0	24	7	0		Agent So. Pacific Co.
Humboldt .....	Humboldt .....	4,236	36	75.9	+1.9	101	21	55	22	45	0.00	-0.04	0.00	0.0	0	22	7	2		Agent So. Pacific Co.
Lovelock .....	Humboldt .....	3,977	16																	G. S. Webb
Mill City-3 .....	Humboldt .....	4,225	19																	Agent So. Pacific Co.
Palisade .....	Eureka .....	4,821	26																	Agent So. Pacific Co.
Quinn River Ranch¶ .....	Humboldt .....	4,850	6	66.8		98	30	35	16	53	0.00		0.00	0.0	0	20	10	1	SW	F. M. Payne
San Jacinto g .....	Elko .....		3	64.8		92	31	34	14	50	0.18		0.10	0.0	4					Moses Jones
Squaw Valley**-2 .....	Elko .....	5,100	1	66.8		100	3	27	14	68	T		T	0.0	0	25	6	0	SW	Chas. D. Dorsey
Tecoma a .....	Elko .....	4,812	30	68.7	-9.3	99	31	39	15	54	0.02	-0.30	0.02	0.0	1	27	4	0	NW	Agent So. Pacific Co.
Wells .....	Elko .....	5,623	36								T	-0.23	T	0.0	0	18	5	8	S	Agent So. Pacific Co.
Winnemucca .....	Humboldt .....	4,432	29	69.4	-2.2	96	31	40	15	44	0.01	-0.16	0.01	0.0	1	31	0	0	SW	U. S. Weather Bureau
Eastern Section.		Means .....		68.2							0.02			0.0	0	22	5	4	SW	
Hamilton .....	White Pine .....	7,977	1	62.0		89	5	38	17	40	0.60		0.13	0.0	8	24	7	0	S	Mrs. L. C. Muir
McGill .....	White Pine .....		0																	W. G. Perkins
Central Section.		Means .....		62.0							0.60			0.0	8	24	7	0	S	
Austin .....	Lander .....	6,594	19																	Dr. W. H. Heinzmann
Eureka .....	Eureka .....	6,500	5	67.1		90	22	38	15	42	0.19		0.10	0.0	4	16	10	5	S	Clay Simms
Potts .....	Nye .....	6,990	15	63.8		92	21	34	15	57	0.35		0.35	0.0	1	12	10	9	S	Miss Mamie Potts
Western Section.		Means .....		65.4							0.27			0.0	2	14	10	7	S	
Carson Dam†† b .....	Churchill .....	4,032	1	73.2		96	31	49	1	40	T		T	0.0	0	15	14	2	W	B. L. Miller
Fallon .....	Churchill .....	3,965	3	72.0		99	31	44	5	48	T		T	0.0	0	31	0	0		U. S. Reclamation Serv.
Fernley †† .....	Lyon .....	0	0	74.4		100	31	47	15	42	0.05		0.05	0.0	1	27	2	2		U. S. Reclamation Serv.
Gardnerville .....	Douglas .....	4,830	9																	Lawrence Ezell
Hazen-2 .....	Churchill .....	4,050	1	75.6		98	31	50	16	40	0.00		0.00	0.0	0	29	2	0		U. S. Reclamation Serv.
Leetville ¶ .....	Churchill .....	4,020	1	73.1		99	31	45	16	44	0.00		0.00	0.0	0	29	2	0	W	U. S. Reclamation Serv.
Lewers' Ranch‡ .....	Washoe .....	5,500	20	65.0	-2.7	89	31	42	14	41	0.16	0.00	0.16	0.0	1	13	17	1		Ross Lewers
Reno .....	Washoe .....	4,532	37	68.1	+0.6	96	31	43	15	42	0.23	+0.09	0.22	0.0	2	24	7	0	W	Central Office
Soda Lake ¶ .....	Churchill .....	4,005	1																	U. S. Reclamation Serv.
Stillwater .....	Churchill .....	3,895	1																	E. J. Freeman
Wabuska .....	Lyon .....	4,347	5	68.1		95	31	41	1	46	T		T	0.0	0	22	9	0	NW	J. G. Young
Wadsworth .....	Washoe .....	4,077	36																	Agent So. Pacific Co.
Southern Section.		Means .....		71.2							0.06			0.0	0	23	7	1	W	
Columbia d .....	Esmeralda .....	5,750	1	72.0		92	2	51	3	38	T		T	0.0	0	26	4	1	S	Will W. Thompson
Geyser b .....	Lincoln .....		3	63.4		92	27	33	17	53	T		T	0.0	0	22	8	1	S	A. D. Campbell
Jean .....	Lincoln .....	2,074	0			107	5				0.00		0.00	0.0	0	22	6	3	S	Agent Salt Lake Route
Logan .....	Lincoln .....	1,700	1	86.4		113	5	58	17	50	T		T	0.0	0	15	12	4	S	Chas. Arney
McAfee's Ranch* a .....	Esmeralda .....	4,835	4	62.3		96	1	30	7	59	T		T	0.0	0	5	1	25	S	G. A. McAfee
Mina .....	Esmeralda .....	4,600	1	74.8		98	7	48	1	46	T		T	0.0	0	30	0	1	SW	Agent So. Pacific Co.
Palmetto .....	Esmeralda .....	6,780	18	63.8	-3.1	90	2	36	15	49	0.18	-0.90	0.18	0.0	1	18	10	3	SE	Wm. Oothout, Jr.
Pioche .....	Lincoln .....	6,100	3																	A. A. Carman
Tonopah .....	Nye .....	6,000	1	72.5	+6.0	88	23	52	15	31	T	-0.31	T	0.0	0	20	11	0	SE	U. S. Weather Bureau
State Means and Extremes.				69.2	-1.2	113	5	27	14	68	0.06	-0.29	0.35	0.0	1	22	6	3	S	

REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station indicates the number of days missing from the record; for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

†Postoffice—Wells. †Postoffice—Franktown. †Postoffice—Amos. \*Postoffice—Dyer ‖Postoffice—Fallon. \*\*Postoffice—Golconda. ††Postoffice—Hazen. ††Postoffice—Wadsworth.








Stations.	Day of Month,																Monthly Means.															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1																																

Aura	Max.	89	86	87	89	88	86	83	86	87	91	90	91	90	88	91	88	92	91	89	91	93	96	85.3		
Min.	Min.	49	57	52	52	54	54	51	53	53	61	63	61	59	61	60	60	58	58	60	60	64	71	58.1		
Austlin	Max.	84	83	84	84	81	85	84	84	84	85	80	83	84	82	84	82	86	84	82	86	90	87	83.2		
Min.	Min.	42	45	44	43	44	43	45	45	49	45	49	50	42	42	40	42	45	47	54	46	46	53	17.1		
Battle Mountain	Max.	88	89	91	90	88	89	88	85	89	89	89	85	87	86	88	89	83	89	83	85	88	93	88.6		
Min.	Min.	52	51	57	53	58	55	52	51	53	56	59	52	53	54	60	61	57	54	55	55	56	63	55.4		
Columbia	Max.	85	86	84	86	85	85	85	85	86	86	80	81	77	83	87	87	89	86	77	83	87	84	84.7		
Eureka	Min.	46	51	50	46	47	50	45	46	45	46	51	53	46	44	48	41	47	57	53	50	51	62	49.5		
Fallon	Max.	91	93	92	90	91	87	89	94	94	94	89	89	92	95	92	92	93	94	94	94	97	99	91.7		
Min.	Min.	46	51	52	44	53	50	45	53	53	59	55	48	57	56	56	56	54	54	51	54	54	54	52.4		
Fernley	Max.	91	88	89	91	90	89	84	89	93	94	91	89	86	93	94	93	89	89	89	94	99	100	91.1		
Min.	Min.	57	56	50	57	57	57	55	55	60	64	63	62	57	47	47	61	60	57	60	63	61	62	57.7		
Gardnerville	Max.																									
Geyser	Min.	85	87	87	88	86	87	87	86	87	89	88	85	83	82	85	86	87	87	89	92	90	91	85	87.2	
Max.	Max.	37	40	45	40	42	44	44	44	44	42	40	44	38	36	35	33	37	36	37	43	40	47	46	39.7	
Golconda	Min.	89	90	90	89	88	89	88	89	88	93	92	88	83	73	84	81	87	83	88	88	93	95	95	88.5	
Max.	Max.	55	59	58	56	52	55	52	54	58	64	58	46	42	45	51	50	56	55	54	56	56	56	56	55.0	
Hamilton	Min.	78	84	89	88	81	81	72	72	77	78	76	76	76	78	76	74	73	75	77	76	78	75	77	76	77.6
Max.	Max.	41	48	48	45	45	43	46	49	41	41	41	41	38	40	55	55	55	54	46	43	44	50	46	46.3	
Hazen	Min.	92	90	88	90	88	87	91	88	89	90	88	81	87	92	95	93	90	93	92	91	92	95	98	91.0	
Min.	Min.	57	56	51	53	56	64	69	54	61	69	64	61	59	54	64	64	59	59	67	63	57	67	69	60.2	
Humboldt	Max.																									
Jean	Min.	104	106	107	106	103	101	98	97	95	99	100	102	98	99	102	102	100	94	96	97	100	104	99	100.6	
Max.	Max.	107	104																							
Las Vegas	Min.																									
Max.	Max.																									
Leeville	Min.	91	92	93	92	87	86	87	87	86	89	88	85	83	79	88	92	95	93	93	91	93	96	99	91.3	
Max.	Max.	47	51	54	51	50	52	52	52	56	63	57	52	56	49	45	56	54	51	52	50	58	56	65	54.9	
Lewers' Ranch	Min.	81	78	76	81	73	76	81	83	82	80	81	83	82	80	81	83	84	84	86	85	86	88	89	81.4	
Max.	Max.	46	44	52	44	45	42	43	45	46	47	42	43	45	49	43	45	48	53	54	49	51	57	48.5		
Logan	Min.	108	112	110	113	109	103	104	105	106	106	108	102	108	105	100	104	106	107	103	101	104	106	111	109	106.0
Max.	Max.	62	70	63	61	62	63	68	69	72	73	64	66	63	58	61	58	69	67	64	70	61	62	60	61	66.7
Min.	Min.	94	93	94	96	95	98	96	93	94	92	91	88	93	94	92	96	94	89	94	93	92	91	93	93.4	
Mina	Min.	48	51	56	55	54	56	59	62	64	62	67	54	52	56	51	54	55	56	57	56	50	61	62	56.3	
Max.	Max.	96	87	91	89	86	87	85	89	87	90	81	85	88	88	88	88	89	91	92	87	84	84	87	87.4	
McAfee's Ranch	Min.	42	39	32	33	30	35	31	35	34	40	31	31	31	30	33	33	32	37	33	33	32	36	42	37.2	
McGill	Max.																									
Min.	Min.	87	85	90	90	80	78	82	82	80	84	87	82	82	80	85	80	85	80	82	80	85	86	83.4		
Palmetto	Min.	40	47	45	41	41	40	41	45	45	45	45	45	45	45	45	45	40	40	44	41	40	45	51	44.3	
Pioche	Max.																									
Min.	Min.	89	87	86	89	85	84	85	88	85	90	88	85	81	88	89	89	92	91	87	87	89	90	87	87.0	
Potts	Max.	37	41	47	41	37	38	36	40	41	41	42	42	42	42	46	34	37	39	43	39	42	41	41	40.7	
Quinn River Ranch	Min.	88	87	86	88	84	86	84	85	92	90	92	84	86	84	89	85	87	89	92	94	98	96	96	88.2	
Max.	Max.	42	44	44	42	40	45	43	41	52	51	53	45	36	35	43	44	43	48	49	48	45	48	48	45.4	
Min.	Min.	42	41	43	42	40	42	45	43	41	41	40	39	39	41	48	45	46	47	46	44	50	54	54	45.4	
Reno	Max.	86	81	85	84	82	80	84	87	88	84	87	85	84	84	77	79	85	83	86	88	88	90	92	85.5	
Min.	Min.	43	50	52	44	46	49	47	46	49	50	50	49	51	43	47	50	53	50	51	55	55	57	57	50.7	
San Jacinto	Max.	84	86	87	83	84	86	89	85	79	81	88	83	79	80	81	82	83	87	80	83	87	90	92	85.0	
Min.	Min.	42	41	53	51	40	39	43	42	42	40	42	42	42	46	30	30	32	32	42	42	44	42	44	44.5	
Squaw Valley	Max.	98	97	100	86	88	96	93	90	92	96	94	96	86	80	27	30	38	38	46	48	97	92	96	94.3	
Min.	Min.	36	40	31	34	44	40	40	40	42	42	42	46	30	27	30	38	38	46	52	42	42	42	42	50.9	
Tecoma	Max.	91	93	90	92	90	90	94	90	93	94	94	92	90	89	83	89	90	96	97	98	90	92	94	93.3	
Min.	Min.	44	45	40	46	45	40	46	45	46	45	46	45	44	48	45	46	47	46	44	50	53	44	54	45.3	
Tonopah	Max.	86	87	86	88	86	87	85	82	86	87	85	81	86	77	84	86	86	88	88	83	82	83	84	45.3	
Min.	Min.	58	64	63	64	64	64	54	54	61	65	62	57	57	52	53	62	62	56	63	62	61	64	67	60.2	
Wabaska	Max.	87	90	89	88	89	88	83	84	88	91	90	85	86	77	87	89	87	89	88	88	88	87	93	87.7	
Min.	Min.	41	45	46	43	43	46	45	47	44	50	53	49	44	47	46	50	50	50	52	55	51	50	48	48.5	
Wadsworth	Max.																									
Min.	Min.	85	86	86	87	87	87	83	85	89	92	88	83	83	75	84	87	89	89	90	90	91	96	96	87.5	
Winnemucca	Max.	54	51	48	44	51	54	54	54	57	55	51	57	53	42	40	46	54	46	53	55	54	52	60	51.5	
Min.	Min.	47	53	51	48	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44.5	



**SCALE OF SHADES—Inches.**

[Lightest shade]	Less than $\frac{1}{2}$
[Light shade]	$\frac{1}{2}$ to 1
[Medium shade]	1 to $1\frac{1}{2}$
[Dark shade]	$1\frac{1}{2}$ to 2
[Darkest shade]	More than 2

	Less than $\frac{1}{2}$
	$\frac{1}{2}$ to 1
	1 to $1\frac{1}{2}$
	$1\frac{1}{2}$ to 2
	More than 2



## DAILY PRECIPITATION FOR JULY, 1907.

Stations.	Day of Month.																															Total.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Northern Section.																																		
Aura																																	0.00	
Battle Mountain																																	T	0.00
Beowawe																																	T	0.00
Carlin			T																									T						0.00
Clover Valley																																	T	0.00
Elko																																	T	0.00
Golconda																																		0.00
Halleck																																	T	0.00
Humboldt																																	T	0.00
Lovelock																																	T	0.00
Mill City																																	T	0.00
Palisade																																		0.00
Paradise Valley			0.08										0.03																				0.11	
Quinn River Ranch																																	0.00	
San Jacinto										0.05																							0.18	
Squaw Valley																																	T	0.02
Tecoma			0.02																														T	0.02
Wells																																	T	0.01
Winnemucca			T																															0.60
Eastern Section.																																		
Hamilton											0.02	0.08	0.01																				0.20	
McGill																																		
Central Section.																																		
Austin																																	0.19	
Eureka			T								T																						T	0.35
Potts																																	T	
Western Section.																																		
Carson Dam																																	T	T
Fallon			T																														T	0.05
Fernley			0.05																														T	
Gardnerville																																		
Hazen																																		
Leeville																																		
Lewers' Ranch																																		
Reno			T																															0.16
Soda Lake			T																														0.01	0.22
Stillwater																																		
Wabuska											T																</							

T indicates trace. \* Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, -  - J. G. McCARTHY, SUPT.

1907



UNNE

U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR AUGUST, 1907.

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NEVADA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

IN COOPERATION WITH THE

NEVADA STATE WEATHER SERVICE

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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UNDER DIRECTION OF

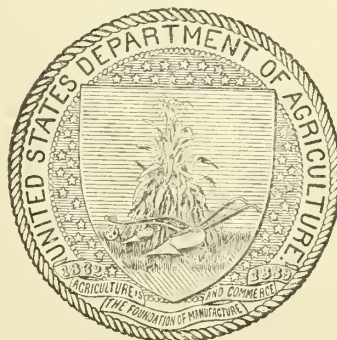
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

HARRY O. GEREN

SECTION DIRECTOR

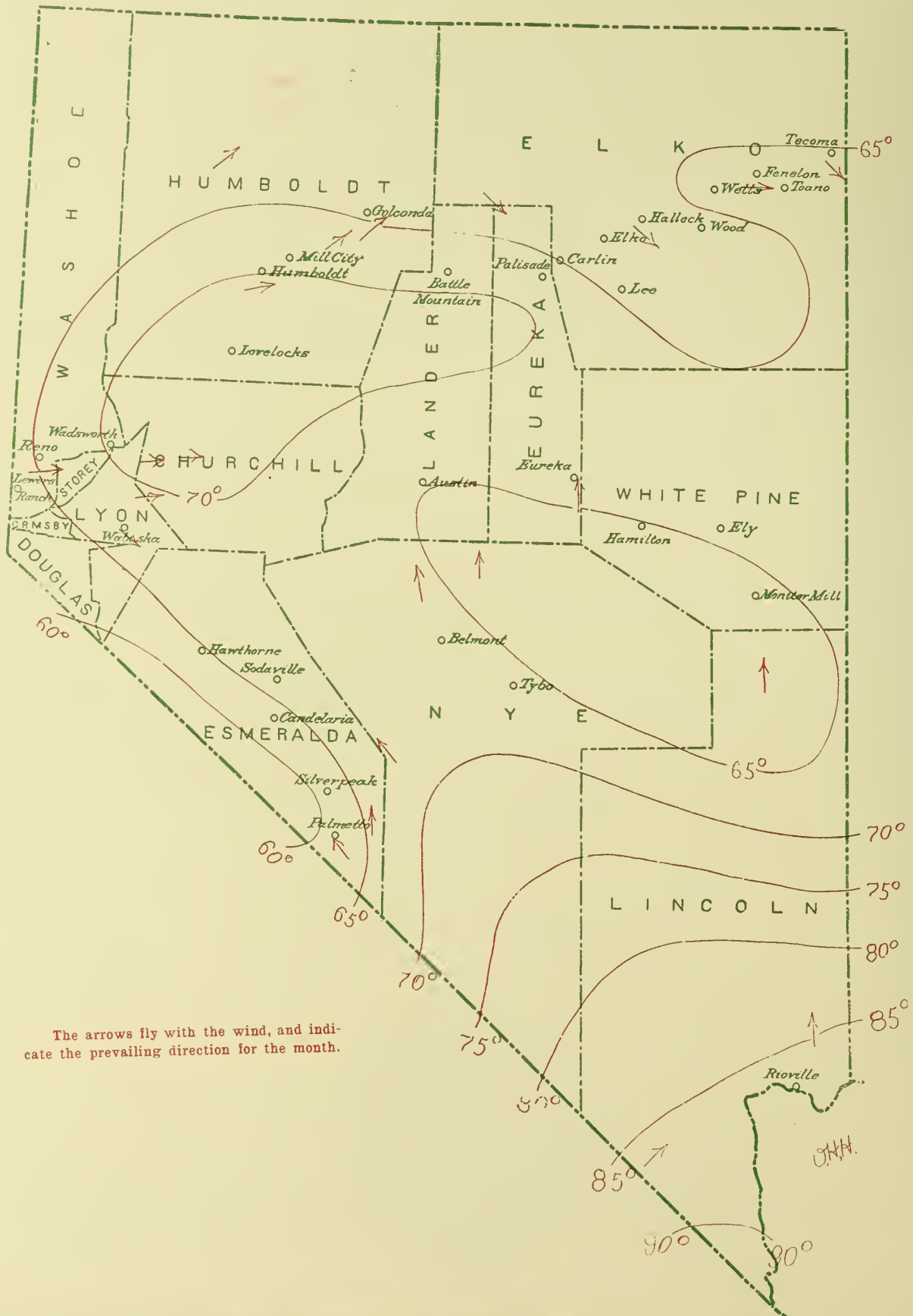


CARSON CITY, NEVADA:

October 11, 1907



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR AUGUST, 1907.





# U. S. DEPARTMENT OF AGRICULTURE, CLIMATOLOGICAL SERVICE

OF THE  
**WEATHER BUREAU.**  
CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,  
HARRY O. GEREN, Section Director.

VOL. XXI. RENO, NEVADA, AUGUST, 1907. No. 8.

## GENERAL SUMMARY.

The weather during the month was very cool, there being but two other years, 1899 and 1900, in which the mean temperature for August was lower. The departures from the normal were greatest over the northern half of the State. The highest temperatures were recorded almost entirely during the first half of the month, while the lowest occurred mostly during the last few days. Over the northern third of the State, the mean temperatures were below the normal practically all of the time, the cool periods of the 9th to the 11th, inclusive, and at the close of the month, having large departures. Over the southern third, the means were a little above the normal thruout the month, except during the above-mentioned cool periods. The middle belt experienced somewhat of a mean between the conditions prevailing in the northern and southern portions.

The average precipitation was about one-half of the normal amount. It was heaviest over the eastern half of Elko and White Pine Counties and the northern portion of Lyon County. Practically all of the precipitation which fell during the month over the northern half of the State was recorded from the 23d to the 30th, inclusive. Over the southern counties the amounts of rain were mostly very small or inappreciable, and the dates on which they occurred were widely scattered thruout the month.

### Temperature.

The mean temperature for the State was 67.7°, which is 2.1° lower than the normal for the month, and 2.5° below the mean for the corresponding month of 1906. The highest monthly mean temperature was 88.0°, at Jean, Lincoln County. The lowest monthly mean temperature was 59.0°, at McAfee's Ranch, Esmeralda County. The highest temperature was 109°, at Las Vegas, Lincoln County, on the 13th, and the lowest was 22°, at McAfee's Ranch, on the 10th. The greatest daily range was 66°, at Squaw Valley, Elko County, on the 10th.

### Precipitation.

The average amount for the State was 0.31 inch, which is 0.29 inch less than the normal for the month, and 0.49 inch less than the average for the corresponding month in 1906. The greatest monthly amount was 1.35 inches, at Fenelon,

Elko County, while at four stations there was no precipitation at all. The greatest amount recorded in twenty-four hours was 1.00 inch, at Fernley, Lyon County, on the 31st. The average number of days with 0.01 inch or more of precipitation was 2.

### Wind.

The prevailing direction of the wind was south. The average hourly velocity at Reno was 5.6 miles; at Tonopah it was 8.6 miles, and at Winnemucca it was 5.1 miles. The maximum velocity for a period of five minutes at Reno was at the rate of 26 miles per hour, northwest, on the 26th; at Tonopah it was 33 miles, southeast, on the 31st, and at Winnemucca it was 26 miles, southwest, on the 1st.

### Sunshine and Cloudiness.

The average number of clear days was 20, partly cloudy days 7, and cloudy days 4.

## COMPARATIVE STATE DATA FOR AUGUST.

Year.	Temperature.			Average precipita- tion.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1890.....	70.1	109	28	2.06	.....	.....	.....	.....	SW
1891.....	72.0	101	25	0.44	2	.....	.....	.....	S
1892.....	71.2	105	20	0.01	0	.....	.....	.....	S
1893.....	71.1	104	25	0.26	2	16	7	8	SW
1894.....	71.0	105	30	0.45	3	.....	.....	.....	SW
1895.....	70.6	112	24	0.15	1	19	8	4	SW
1896.....	69.0	109	34	0.82	3	17	7	7	W
1897.....	73.3	110	31	0.31	.....	.....	.....	.....	.....
1898.....	73.6	112	29	0.45	2	18	8	5	SW
1899.....	63.7	99	20	0.82	3	19	5	7	W
1900.....	66.6	110	30	0.04	0	22	6	3	SW
1901.....	68.3	101	29	2.05	6	17	5	9	SW
1902.....	68.9	117	30	0.22	2	21	5	5	SW
1903.....	69.7	114	28	0.10	1	24	6	1	SW
1904.....	68.6	105	22	1.18	7	12	8	11	SW
1905.....	70.7	108	31	0.27	1	21	6	4	SW
1906.....	70.2	111	26	0.80	3	17	8	6	W
1907.....	67.7	109	22	0.31	2	20	7	4	S
Entire period.....	69.8	117	20	0.60	2	19	6	6	SW

## MISCELLANEOUS PHENOMENA.

*Hail*—Clover Valley, 28th; Eureka, 14th, 27th; Fenelon, 23d, 25th, 28th; Halleck, 28th; Palmetto, 1st.

*High Winds*—Columbia, 7th, 9th, 23d, 31st; Eureka, 17th; Geyser, 9th; Hazen, 8th, 9th; Las Vegas, 12th; Potts, 6th, 7th, 8th, 9th, 16th, 31st; Palmetto, 5th, 6th, 9th, 10th, 12th, 13th, 22d, 23d, 31st; Reno, 26th; Squaw Valley, 23d; Tonopah, 31st; Wabuska, 10th; Winnemucca, 1st.

*Killing Frosts*—Fenelon, 29th; Geyser, 11th; San Jacinto, 11th; Squaw Valley, 10th, 11th, 18th, 19th, 20th, 28th.

*Thunderstorms*—Clover Valley, 2d, 23d, 24th, 25th, 28th; Columbia, 17th; Carson Dam, 23d, 26th; Eureka, 3d, 14th, 17th, 27th; Fenelon, 23d, 27th, 28th, 29th; Fernley, 16th, 23d, 24th, 25th, 28th; Geyser, 3d, 21st, 24th; Hazen, 26th; Leetville, 23d, 26th; Millett, 17th; Palmetto, 1st, 2d; Potts, 1st, 2d, 15th, 17th, 22d, 23d, 27th; Reno, 23d, 26th, 30th, 31st; Tonopah, 2d, 17th; Wabuska, 23d, 26th; Winnemucca, 23d.



## LATE REPORT.

AUSTIN (Lander County) report for August, 1907—Mean temperature, 65.0°; highest, 88°, on the 16th; lowest, 38°, on the 10th; greatest daily range, 33°. Total precipitation, 0.02 inch; rainy days, 1; clear days, 18; partly cloudy, 8; cloudy, 5; prevailing wind, west.

## ERRATA.

June, 1907, Hazen: Page 45, mean temperature published 62.8°, should be 63.0°; page 46, maximum on the 6th published 64°, should be 74°, and on the 11th published 66°, should be 76°, mean maximum published 76.8°, should be 77.4°.

## MT. ROSE.

Professor J. E. Church, Jr., is having special instruments made to use on the summit of Mt. Rose. These instruments are designed to run 35 days, and are expected to give much more complete records than have been obtained in the past from the ordinary short-time apparatus now in use. They will probably be put into service in the course of a few months. When this is done, it is hoped that Professor Church will be enabled to kindly furnish this office with valuable data for publication in this bulletin. A description of the instrumental equipment will also be given.

## CLIMATOLOGY OF LOVELOCK, NEVADA.

Lovelock is situated in the south-central portion of Humboldt County, in latitude 40° 10' north, and longitude 118° 23' west. The elevation of the station is 3,977 feet. The surrounding country is level, and there are no forests or bodies of water in the immediate vicinity. The observations were begun in November, 1891, and continued thru November, 1906, making a record sixteen years in length, but with numerous breaks in it. The station is now discontinued.

The mean annual temperature is 52.6°. December is the month with the lowest average temperature, the mean being 31.3°, while July has the highest mean, with an average of 76.5°. The coldest month on record is December, 1905, when the mean temperature was 19.0°, while the warmest is August, 1894, with an average temperature of 82.7°. The highest temperature ever recorded was 108° in August, 1894, and again on July 30, 1900. The lowest on record is 10° below zero on January 26, 1902, and February 7, 1903. From September to December, inclusive, 1905, the monthly mean temperatures were the lowest on record for the respective months, making an unusually long cold period. Freezing temperatures have been recorded in every calendar month except July and August.

The precipitation is very light, the average annual amount being but 2.81 inches. February has the greatest monthly

average, with 0.53 inch, while for August the normal amount is only 0.03 inch. Periods of three months without rain are numerous, occurring, of course, mostly during the summer and autumn. The greatest amount ever recorded in one month is 2.30 inches in January, 1895. On account of the numerous breaks in the record, the determination of extended wet and dry periods becomes impracticable.

## Monthly and Annual Precipitation.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1891											0.00	0.45	
1892	T				0.00	0.00	0.00	0.00		0.00	0.00	0.00	
1893	0.00			0.00	0.00	0.00		0.00	1.00	0.00	0.30	0.00	
1894	0.00	0.45	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.10	
1895	2.30	0.94	0.00	0.13	0.60	0.00	0.00	0.00	T	T	0.00	0.55	
1896	0.40	0.04	0.46	0.07	1.14	0.00	0.12	0.00	0.00	0.11	0.14	0.20	2.68
1897	0.44	1.21	0.41	0.09	T	T	0.00	0.00	0.00	1.00	0.09	0.25	3.49
1898	0.37	T	0.15		1.55	T	0.00	0.00	0.40	T	T	0.09	
1899		0.05		T	0.15	0.28	0.00	0.00	0.00	0.30	0.16	0.64	
1900	0.20	0.46	0.33	0.50	0.65	0.13		0.00	0.45	0.23	0.60	0.00	
1901	0.90	1.40	0.00	0.46	0.56	0.00	0.00	0.44	0.12	1.39	1.10	0.45	6.82
1902	0.10	1.00	0.40		0.00	0.00	0.65	0.00	0.00	0.00	0.55	0.00	
1903	0.50	0.05	0.00	0.78	0.00	0.00	0.00	0.00		0.00	0.00	0.00	
1904	T	1.16	1.50	T	T	0.00	0.77	0.00	1.22		T	T	
1905	T	0.40	T	0.15	0.00	0.00	T	0.00	0.05	0.00	0.10	0.15	0.85
1906	0.75	0.20	T	T	0.15	0.35	T	T			0.22		
Means	0.43	0.53	0.27	0.18	0.32	0.05	0.13	0.03	0.25	0.23	0.20	0.19	2.81

## Monthly and Annual Mean Temperatures.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1891											42	35	
1892	31	37	45	48	62	71	79	79		52	43	35	
1893	29	36		43	63	69		77	62	51	44	32	
1894	31	31	45	56	67			83	69	57	47	34	
1895	33	38	48	61	65	71	76	76	70	53	44	34	56
1896	43	45	48	49	57	76	83	77	64	60	39	36	56
1897	35	30	40	54	67	67	81	82	68	51	42	32	54
1898	20		38		55	66	76	76	64	50	37	25	
1899				51	52	67	77	69	65	47	41	31	
1900	39	40	50	49				70	63	49	45	30	
1901	40	38	45	51	61	69	70	72	59	55	44	33	53
1902	30	36	39	45	62	72	75	77	64	53	50	36	53
1903	34	24	47	49	60	61			62	53	43	27	
1904	27	31	40	50	60	68	72	74	65	51	43	31	51
1905	34	36	44	51	53	62	75	73	59	47	32	19	49
1906	31	39	36	54	56	62	77	74	63	51	36		
Means	32.6	35.5	43.5	50.8	60.0	67.8	76.5	75.6	64.1	52.0	42.0	31.3	52.6

Extreme values, in *italic type*.

## Temperature Extremes, 1892 to 1906, Inclusive.

Month.	Maximum.	Year.	Day.	Minimum.	Year.	Day.
January	75	1901	24	-10	1902	126
February	75	1895		-10	1903	7
March	90	1901	15	10	1906	12
April	92	1894		22	1904	223
May	100	1902	28	28	1902	15
June	100	1892		32	1901	311
July	108	1900	30	33	1901	4
August	108	1894		38	1906	126
September	100	1906	4	29	1906	16
October	92	1896		10	1905	117
November	81	1894		0	1905	29
December	69	1893		-8	1905	20

<sup>1</sup>Also on other dates in the same month. <sup>2</sup>Also in 1897. <sup>3</sup>Also on the 13th, 1906.



## CLIMATOLOGICAL DATA FOR AUGUST, 1907.

Stations	Counties	Elevation (feet)	Length of record (years)	Temperature (degrees Fahrenheit)						Precipitation (inches)				Sky				Prevailing direction of wind	Observer.
				Mean.	Departure from the normal	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal	Greatest in 24 hours.	Total snowfall (unmelted)	Number rainy days.	Number clear days.	Number partly cloudy days.		
Northern Section.																			
Aura	Elko		0																E. J. Clark
Battle Mountain	Lander	4,511	37	68.6	-5.5	96	3	44	27	40	0.05	-0.05	0.04	0.0	2	24	5	2	Agent So. Pacific Co.
Beowawe-3	Eureka	4,685	37	72.0	-3.1	96	3	58	27	26									Agent So. Pacific Co.
Carlin-3	Elko	4,897	37	62.6	-6.8	89	18	39	26	38	0.00	-0.53	0.00	0.0	0	22	0	9	Agent So. Pacific Co.
Clover Valley†	Elko	6,000	8	62.8		89	6	35	11	49	1.29		0.74	0.0	5	17	11	3	A. H. Wiseman
Elko-3	Elko	5,063	37	64.1	-4.0	95	1	50	10	42	0.25	-0.06	0.25	0.0	1	9	0	22	Agent So. Pacific Co.
Fenelon	Elko	6,128	20	65.5	-4.5	92	1	31	29	50	1.35	+1.01	0.63	0.0	5	14	15	2	Agent So. Pacific Co.
Golconda	Humboldt	4,392	29	66.6	-10.1	92	1	39	11	44	0.00	-0.05	0.00	0.0	0	22	3	6	Agent So. Pacific Co.
Halleck-3	Elko	5,229	35	61.5	-8.3	91	2	32	29	48	0.10	-0.07	0.10	0.0	1	12	19	0	Agent So. Pacific Co.
Humboldt	Humboldt	4,236	36	70.3	-1.7	85	17	50	24	30	0.00	-0.09	0.00	0.0	0	27	4	0	Agent So. Pacific Co.
Lovelock	Humboldt	3,977	16																G. S. Webb
Mill City-3 }	Humboldt	1,225	19	68.9	-6.7	90	13	40	11	40									Agent So. Pacific Co.
Palisade	Eureka	4,821	26																Agent So. Pacific Co.
Quinn River Ranch*	Humboldt	4,850	6	63.4		99	6	31	11	59	0.31		0.15	0.0	3	22	7	2	F. M. Payne
San Jacinto	Elko		3	61.1		91	1	28	18	59	1.15		3.53	0.0	8	19	2	10	Moses Jones
Squaw Valley**-2	Elko	5,100	1	63.2		100	3	24	10	66	0.04		0.04	0.0	1	20	7	4	Chas. D. Dorsey
Tecoma	Elko	4,812	30	65.9	-10.1	96	7	33	21	53	0.00	-0.14	0.00	0.0	0	26	5	0	Agent So. Pacific Co.
Wells	Elko	5,623	36	66.3	-5.5	92	25	38	29	41	0.00	-0.22	0.00	0.0	0				Agent So. Pacific Co.
Winnemucca	Humboldt	4,432	29	65.2	-5.6	96	1	36	30	48	0.14	-0.03	0.10	0.0	2	25	3	3	U. S. Weather Bureau
Eastern Section.	Means			65.7							0.36			0.0	2	20	7	4	sw
Hamilton	White Pine	7,977	1																Mrs. L. C. Muir
McGill	White Pine		0																W. G. Perkins
Central Section.	Means																		
Austin	Lander	6,594	19																Dr. W. H. Heinzmann
Eureka	Eureka	6,500	5	65.6		89	5	34	29	44	0.63		0.32	0.0	6	11	12	8	Clay Simms
Millett n	Nye		0	65.4		92	16	35	29	52									Fred J. Jones
Potts	Nye	6,990	15	62.3	-13.8	91	15	27	29	56	0.08	-0.55	0.04	0.0	3	5	12	14	Miss Mamie Potts
Western Section.	Means			64.4							0.36			0.0	4	8	12	11	s
Carson Dam††	Churchill	4,032	1	69.8		95	1	40	10	41	0.30		0.30	0.0	1	21	1	9	B. L. Miller
Fallon	Churchill	3,965	3	69.2		99	1	40	12	53	0.38		0.12	0.0	4	27	1	3	U. S. Reclamation Serv.
Fernley ††	Lyon		0	71.2		98	16	40	10	47	1.14		1.00	0.0	3	20	7	4	U. S. Reclamation Serv.
Gardnerville	Douglas	4,830	9																Lawrence Ezell
Hazen-2	Churchill	4,050	1	71.6		96	16	40	10	42	0.03		0.03	0.0	1	27	0	4	U. S. Reclamation Serv.
Leetville †	Churchill	4,020	1	69.4		100	1	39	10	46	0.03		0.03	0.0	1	19	10	2	U. S. Reclamation Serv.
Lewers' Ranch†	Washoe	5,500	20	64.2	-3.9	91	16	34	10	45	0.20	-0.23	0.20	0.0	1	14	14	3	Ross Lewers
Reno	Washoe	4,532	37	65.6	-1.4	93	16	38	10	45	0.30	+0.05	0.30	0.0	2	23	6	2	Central Office
Soda Lake †	Churchill	4,005	1			105	2				0.20		0.20	0.0	1	24	3	4	U. S. Reclamation Serv.
Stillwater	Churchill	3,895	1																E. J. Freeman
Wabuska	Lyon	4,347	5	66.2		94	1	35	11	48	0.50		0.50	0.0	1	19	12	0	J. G. Young
Wadsworth	Washoe	4,077	36																Agent So. Pacific Co.
Southern Section.	Means			68.4							0.34			0.0	2	22	6	3	w
Columbia	Esmeralda	5,750	1	69.8		92	15	41	29	39	T		T	0.0	0	22	9	0	Will W. Thompson
Geyser c	Lincoln		3	61.3		90	8	30	31	55	T		T	0.0	0	16	12	3	A. D. Campbell
Jean a	Lincoln	2,074	0	88.0		103	7	67	29	26	0.37		0.24	0.0	2	29	0	2	Agent Salt Lake Route
Las Vegas	Lincoln		0	82.2		109	13	50	31	55									Agent Salt Lake Route
Logan	Lincoln	1,700	1	85.2		108	8	54	29	47	0.13		0.08	0.0	2	20	10	1	Chas. Arney
McAfee's Ranch*	Esmeralda	4,835	4	59.0		91	16	22	10	58	T		T	0.0	0	20	6	5	G. A. McAfee
Mina	Esmeralda	4,600	1																Agent So. Pacific Co.
Palmetto	Esmeralda	6,780	18	62.0	-3.2	88	2	30	29	43	0.53	-1.34	0.48	0.0	2	19	7	5	Wm. Oothout, Jr.
Pioche	Lincoln	6,100	3																A. A. Carman
Tonopah	Nye	6,000	1	69.6	+3.9	90	16	41	10	32	T	-0.39	T	0.0	0	17	13	1	U. S. Weather Bureau
	Means			72.1							0.15			0.0	1	21	8	2	s
State Means and Extremes.				67.7	-2.1	109	13	22	10	66	0.31	-0.29	1.00	0.0	2	20	7	4	s

REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station indicates the number of days missing from the record; for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

† Postoffice—Wells. † Postoffice—Franktown. † Postoffice—Amos. \* Postoffice—Dyer † Postoffice—Fallon. \*\* Postoffice—Golconda. †† Postoffice—Hazen. †† Postoffice—Wadsworth.

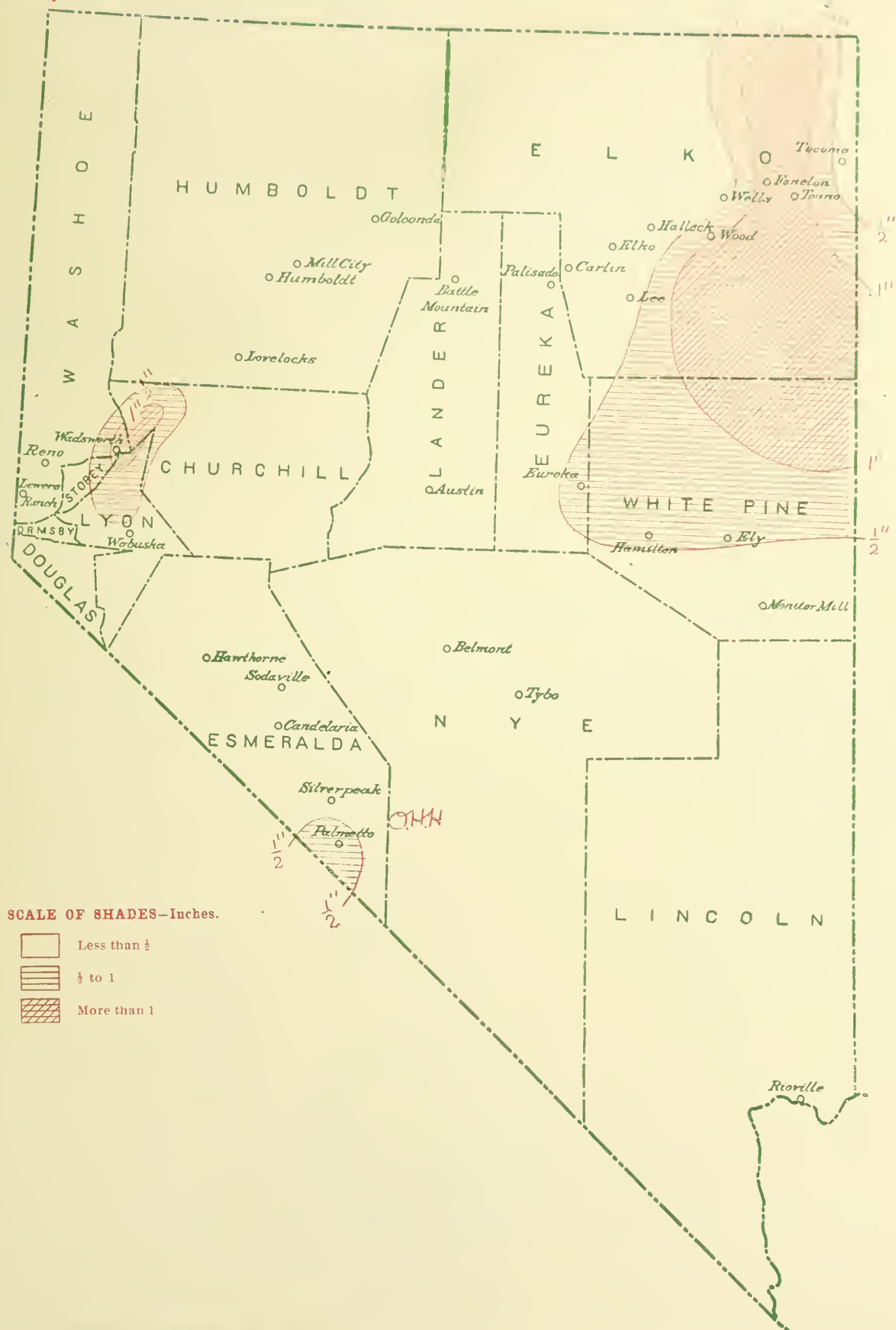


DAILY MAXIMUM AND MINIMUM TEMPERATURES FOR AUGUST, 1907.

Stations.	Day of Month.																															Monthly Means.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Battle Mountain.....	Max. 75	80	96	94	93	92	90	89	88	87	86	87	87	89	94	92	88	86	86	85	86	88	78	76	75	76	64	68	72	75	76	83.8	
Carson Dam.....	Min. 48	50	57	56	56	55	55	54	53	54	52	51	50	50	51	50	49	48	50	59	60	60	60	58	57	57	56	52	52	50	52	53.4	
Clover Valley.....	Max. 65	64	57	60	61	62	62	62	60	60	45	50	58	57	61	55	58	51	51	56	53	55	61	63	79	58	45	56	52	48	52	51.7	
Columbia.....	Min. 49	60	87	82	86	86	86	84	72	80	40	88	89	86	82	88	88	88	81	83	84	83	83	79	78	67	63	62	66	71	62	80.9	
Fernley.....	Max. 89	90	90	89	88	88	88	86	78	81	42	57	63	62	92	92	88	91	92	90	90	88	84	82	82	81	77	72	74	74	72	85.2	
Eureka.....	Min. 60	55	57	53	58	57	55	56	48	44	42	47	49	49	56	57	66	85	85	87	87	84	84	84	73	74	63	73	72	71	72	82.6	
Fallon.....	Max. 87	84	84	84	89	87	88	84	77	83	39	87	86	88	89	86	86	86	85	85	87	87	84	84	84	45	41	38	37	76	76	88.5	
Gardnerville.....	Min. 54	57	50	46	51	52	53	60	46	36	39	49	58	58	94	92	97	97	96	92	94	89	83	82	84	50	75	77	73	46	52	49.8	
Geyser.....	Max. 99	96	96	91	95	92	94	93	86	84	84	93	94	94	92	97	97	96	93	92	94	89	83	82	84	45	45	48	48	46	52	52	88.5
Golconda.....	Min. 57	58	46	47	50	51	51	48	45	42	43	45	45	56	52	49	47	49	47	46	55	59	59	85	53	76	76	73	74	67	67	86.8	
Hamilton.....	Max. 97	93	94	92	95	92	90	86	77	75	87	92	95	93	94	98	94	90	91	93	87	87	62	50	51	53	44	52	50	52	50	55.6	
Hazen.....	Min. 64	65	55	60	64	63	54	59	52	40	40	55	61	64	62	57	66	55	55	55	58	57	57	62	50	51	53	44	52	50	52	50	55.6
Humboldt.....	Max. ....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Jean.....	Min. 89	88	85	87	89	88	87	90	88	85	87	88	89	88	88	88	88	87	89	90	90	88	86	85	84	85	83	82	74	73	73	73	85.2
Las Vegas.....	Max. 38	40	38	39	40	38	39	40	37	31	32	34	38	40	38	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Leeville.....	Min. 92	92	90	85	90	92	90	89	79	71	81	88	91	90	85	91	91	89	82	89	83	88	84	78	77	77	47	44	45	42	40	47	83.5
Lewers' Ranch.....	Min. 59	58	51	52	52	56	57	57	51	41	39	45	50	54	50	47	60	56	46	46	49	45	51	46	54	58	47	44	45	42	40	47	49.8
Logan.....	Max. ....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
McAfee's Ranch.....	Min. 100	97	96	95	93	92	90	84	72	84	46	52	57	58	96	96	88	86	95	88	87	82	68	84	82	52	80	77	78	66	51	50	61.8
McGill.....	Min. 65	61	54	56	57	50	55	46	40	39	46	52	57	58	53	58	48	45	50	49	51	58	58	44	52	50	44	55	50	44	52	50	81.5
Millett.....	Max. 87	83	86	87	86	85	86	84	73	63	56	66	74	73	72	71	73	89	89	90	91	85	81	83	81	81	78	74	70	75	70	75	83.5
Mina.....	Min. 42	44	37	32	35	32	36	36	36	22	26	31	39	40	38	42	37	32	32	40	48	29	32	32	41	36	34	25	23	25	33	34.4	
Palmetto.....	Max. ....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pioche.....	Min. 84	88	86	85	84	85	84	84	80	67	78	80	82	86	86	88	85	88	86	88	88	80	80	78	78	75	70	70	70	74	73	70	82.8
Potts.....	Max. 56	52	47	45	46	48	47	44	40	35	35	37	45	57	47	51	50	47	43	45	55	52	52	37	36	40	36	33	30	33	36	43.6	
Quinn River Ranch.....	Min. ....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Reno.....	Max. 90	85	83	84	87	84	80	85	80	82	84	85	86	90	91	86	83	81	86	85	85	83	80	82	85	83	83	81	79	74	70	76	83.1
San Jacinto.....	Min. 52	62	54	37	40	38	42	52	58	42	28	30	31	42	41	56	43	39	38	51	44	52	42	42	39	36	39	36	31	27	30	35	41.5
Squaw Valley.....	Max. 96	92	88	87	91	99	89	84	76	75	85	90	91	92	90	94	94	82	88	88	85	84	84	80	79	79	78	75	73	76	74	74	85.2
Tecoma.....	Min. 45	42	42	42	44	44	45	39	43	38	31	34	36	38	35	35	54	33	35	45	45	43	45	43	45	46	51	43	43	43	48	41.7	
Tonopah.....	Max. 92	87	83	86	90	84	82	80	73	85	89	87	89	87	92	93	88	90	88	88	84	85	82	80	79	75	74	74	74	45	58	48.9	
Wabaska.....	Min. 55	54	49	51	55	54	50	53	52	38	40	49	49	52	53	55	48	47	48	49	55	51	44	44	47	47	42	42	42	45	45	48	48.9
Wadsworth.....	Max. 91	89	83	89	86	90	87	89	76	68	81	89	90	89	88	88	91	87	90	88	91	90	89	86	78	82	80	78	80	78	78	89.5	
Winnemucca.....	Min. 47	50	51	45	40	42	44	42	40	38	40	30	33	36	37	38	33	32	32	34	36	40	93	80	78	82	80	78	80	78	78	89.5	
.....	Max. 97	98	100	98	100	90	94	96	90	90	92	92	94	90	91	91	92	92	92	92	92	86	92	83	80	78	82	80	78	80	78	89.5	
.....	Min. 46	48	48	48	48	42	42	42	42	24	28	32	32	36	34	36	32	30	30	31	33	48	42	46	36	42	85	86	85	86	84	87.8	
.....	Max. 94	94	86	88	93	94	96	95	87	75	82	90	96	94	91	89	80	86	80	87	86	89	85	84	82	36	42	85	86	86	84	87.8	
.....	Min. 85	87	84	86	85	85	85	85	82	72	82	85	85	84	48	47	44	46	45	50	49	48	37	38	35	37	38	35	37	45	45	87.8	
.....	Max. 60	60	59	60	60	60	62	62	50	41	50	60	64	62	66	65	61	60	67	62	64	60	54	53	50	53	50	49	45	50	55	57.7	
.....	Min. 94	94	88	87	89	88	90	86	83	77	81	86	89	88	89	91	92	92	92	90	88	86	82	86	82	80	83	80	77	75	71	75	85.5
.....	Max. 55	53	47	47	50	50	46	50	47	38	35	38	45	48	48	50	53	45	45	47	48	57	54	41	43	46	38	51	45	40	50	46.9	
.....	Min. ....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
.....	Max. 96	92	83	86	91	89	87	85	77	71	83	90	90	89	87	92	91	82	84	90	81	87	83	78	77	75	78	72	75	70	65	88.0	
.....	Min. 57	60	54	48	48	58	48	48	46	37	37	46	44	48	48	51	52	50	45	42	49	44	52	43	49	44	44	44	36	47	47	47.2	



TOTAL PRECIPITATION FOR AUGUST, 1907.





\* Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, - - J. G. MCCARTHY, SUPT.



1907



30-  
551.05  
LARGE  
stack

U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR SEPTEMBER, 1907

NEVADA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

IN COOPERATION WITH THE

NEVADA STATE WEATHER SERVICE

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

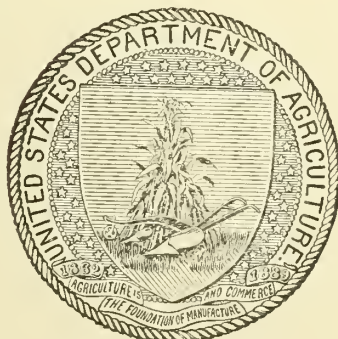
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

HARRY O. GEREN

SECTION DIRECTOR

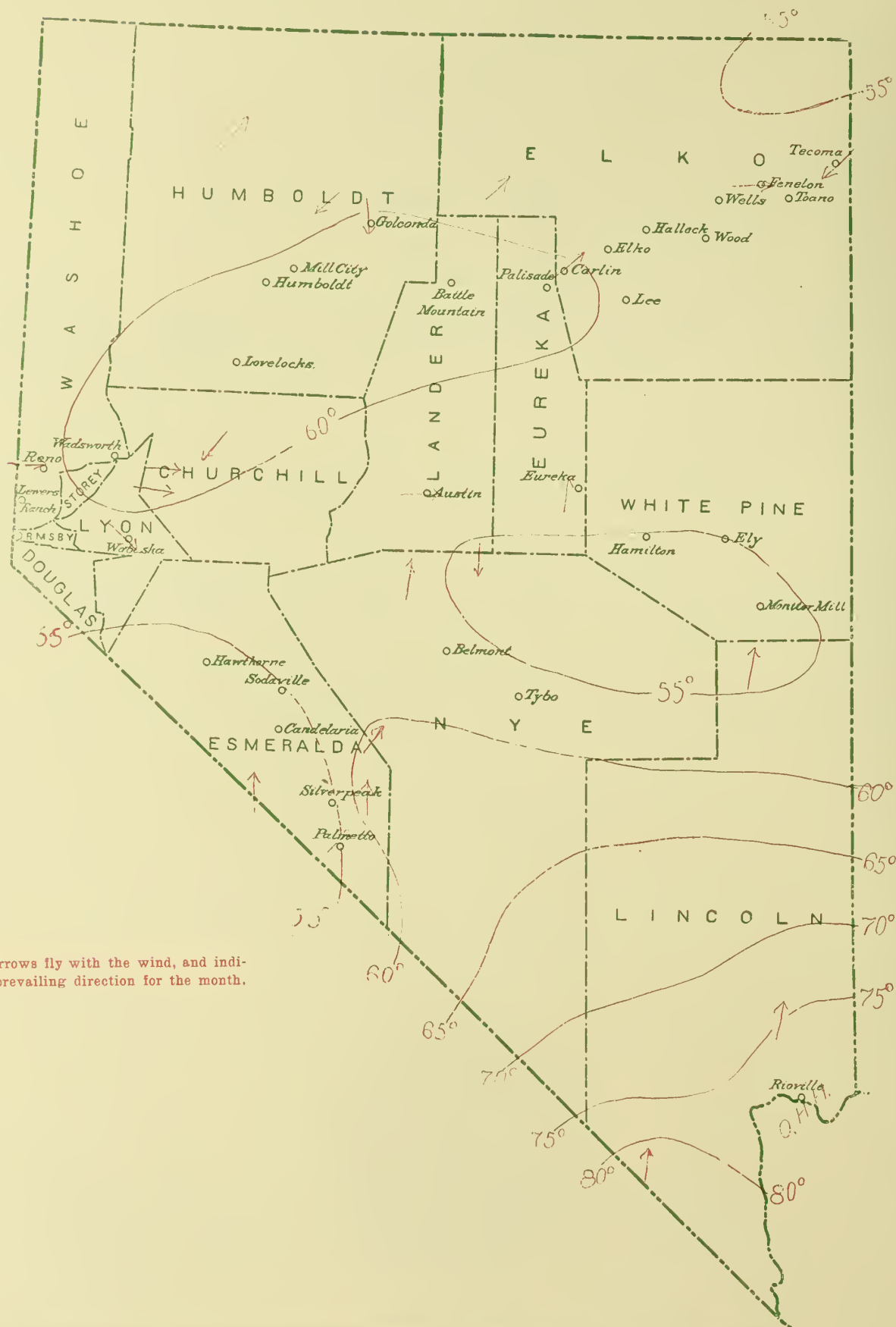


CARSON CITY, NEVADA:

November 4, 1907



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR SEPTEMBER, 1907.





U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**  
 OF THE  
**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,

HARRY O. GEREN, Section Director.

VOL. XXI. RENO, NEVADA, SEPTEMBER, 1907. No. 9.

GENERAL SUMMARY.

The climatic conditions over the State during the month were more nearly normal than usual. Over the southern half of the State the mean temperature was above the normal, while over the northern portion it was about as much below the normal. The month started with cool weather, and there was a gradual rise in temperature during the first decade, culminating about the 10th, most of the maximum temperatures for the month being recorded on the 9th and 10th. Then there was a similarly gradual decline until just before the close of the second decade, the minimum temperatures for the month being recorded generally on the 18th and 19th. During the third decade there was first a warm period of a few days, and then cool weather prevailed to the close of the month.

There were only three days on which the precipitation could be said to have been general: the 4th, 28th, and 29th. Scattered showers occurred from the 1st to the 3d over the southern half, and on the 16th, 17th, and 25th over the northern half of the State. The total amounts for the month were greatest in the northeastern portion.

Temperature.

The mean temperature for the State was 59.9°, which is 0.2° lower than the normal for the month, and 0.3° lower than the mean for the corresponding month of 1906. The highest monthly mean temperature was 81.6°, at Jean, Lincoln County. The lowest monthly mean temperature was 51.2°, at Potts, Nye County. The highest temperature was 108°, at Logan, Lincoln County, on the 12th, and the lowest was 12°, at McAfee's Ranch, Esmeralda County, on the 20th. The greatest daily range was 67°, at Squaw Valley, Elko County, on the 13th.

Precipitation.

The average amount for the State was 0.35 inch, which is 0.04 inch less than the normal for the month, and 0.05 inch more than the average for the corresponding month in 1906.

The greatest monthly amount was 1.50 inches, at Battle Mountain, Lander County, while at Geyser, Lincoln County, and Wells, Elko County, there was no precipitation at all. The greatest amount recorded in twenty-four hours was 1.50 inches, at Battle Mountain, on the 29th. The average number of days with 0.01 inch or more of precipitation was 2.

Wind.

The prevailing direction of the wind was south. The average hourly velocity at Reno was 5.2 miles; at Tonopah it was 9.2 miles, and at Winnemucca it was 5.3 miles. The maximum velocity for a period of five minutes at Reno was at the rate of 28 miles per hour, west, on the 25th; at Tonopah it was 40 miles, northwest, on the 28th, and at Winnemucca it was 26 miles, southwest, on the 4th.

Sunshine and Cloudiness.

The average number of clear days was 20, partly cloudy days 6, and cloudy days 4.

COMPARATIVE STATE DATA FOR SEPTEMBER.

Year.	Temperature.				Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.	Average precipitation.	With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1889	61.7	110	13	0.55	.....	.....	.....	.....	SW
1890	61.2	110	18	0.81	.....	.....	.....	.....	S
1891	58.9	98	5	0.94	5	.....	.....	.....	SW
1892	62.8	109	15	0.09	1	.....	.....	.....	SE
1893	57.5	99	16	0.51	3	16	7	7	SW
1894	58.4	96	10	0.35	2	.....	.....	.....	W
1895	59.9	106	0	0.27	1	20	5	5	W
1896	58.3	102	15	0.35	1	17	7	6	SW
1897	60.4	105	21	0.16	1	18	7	5	W
1898	61.1	97	18	0.20	1	22	4	4	W
1899	63.0	98	24	0.05	0	24	3	3	W
1900	56.1	99	17	0.30	2	19	5	6	SW
1901	56.2	95	20	0.39	2	21	5	4	SW
1902	61.7	113	10	0.21	2	19	5	6	SW
1903	60.2	114	17	0.18	1	22	5	3	SW
1904	60.4	103	19	0.93	4	17	5	8	S
1905	61.1	103	19	0.51	1	19	5	6	SW
1906	60.2	103	18	0.30	2	20	6	4	W
1907	59.9	108	12	0.35	2	20	6	4	S
Entire period	60.1	114	0	0.39	2	20	5	5	SW

MISCELLANEOUS PHENOMENA.

*Fog*—Beowawe, 30th; Winnemucca, 30th.

*Halos, Lunar*—Reno, 20th, 28th; Winnemucca, 27th.

*Halos, Solar*—Eureka, 2d.

*High Winds*—Austin, 28th; Clover Valley, 17th, 28th; Columbia, 1st, 25th, 26th, 27th, 28th, 29th; Eureka, 25th; Las Vegas, 28th, 29th; Leetville, 27th; Logan, 28th; Palmetto, 4th, 28th, 29th; Potts, 1st, 2d, 3d, 5th, 16th, 17th, 25th, 27th; Reno, 25th; Tonopah, 28th; Winnemucca, 4th.

*Killing Frosts*—Carson Dam, 18th; Eureka, 19th; Leetville, 26th; Millett, 13th, 22d; Palmetto, 19th, 20th, 26th, 27th, 30th; Potts, 14th, 15th, 17th, 18th, 19th, 20th; San Jacinto, 13th, 14th; Squaw Valley, 1st, 10th, 13th, 14th, 15th, 16th, 17th; Wabuska, 13th, 15th, 20th, 21st, 27th; Winnemucca 19th.

*Sleet*—Beowawe, 18th.

*Thunderstorms*—Austin, 3d; Carson Dam, 4th; Columbia,



4th; Eureka, 2d, 3d. Fenelon, 25th, 28th; Fernley, 3d, 4th; Leetville, 3d, 4th; McAfee's Ranch, 3d; Millett, 3d, 4th; Palmetto, 3d; Reno, 3d; Tonopah, 3d, 4th; Winnemucca, 4th, 5th; Wabuska, 3d.

#### WATER RESOURCES OF NEVADA.

To one who lives among the green hills and abundant vegetation of the Middle States, the word Nevada conveys an impression of excessive dryness. No other State, except Arizona, bears such a reputation for lack of moisture. The traveler on the train looks out upon brown rolling hills and ragged lava-strewn mountains. The hills are not crowned with stately trees, but mountain and plain are alike covered with the aromatic sagebrush. The landscape gives little hint of the real bounty of nature in this apparent desolation. Under these gray old bushes grow the most fragrant and beautiful wild flowers. Falling down these rugged mountain sides are little streams of water fed by the melting snows upon the summits.

The streams of Nevada are small compared with the rivers of other States. The water nearly all runs toward the interior and empties into shallow lakes to evaporate there. The Humboldt River rises in the Ruby and Independence Mountains, in Elko County, and flows west to the sink near Lovelock. Beginning at the starting point of its longest tributary and following its devious course to its confluence with the other streams, thence to the Sink of the Humboldt, the total distance is a thousand miles. The pathfinders that crossed from the Missouri River to California in the "prairie schooners" of '49 followed the Humboldt River for hundreds of miles. Along its banks the stock of the emigrants found grass and rested after the wearying journey across western Utah and eastern Nevada. This river, with its tributaries, drains nearly 11,000 square miles of land. The average annual rainfall is about 12 inches. The stream actually irrigates at present about 300,000 acres of land.

The Walker River rises among the high mountains on the eastern side of California and flows northeast into Nevada, watering on its way Antelope Valley in California and Smith and Mason Valleys in Nevada. It then rounds the north end of the Walker River Mountains and turns south, emptying into Walker Lake in Esmeralda County. It waters 50,000 acres of land, and both of its forks offer opportunity for power development. It flows through the Walker River Reservation, first opened for settlement October 29, 1906.

The Carson River, like the Walker, rises in eastern California and flows east and north into Nevada, watering between 50,000 and 60,000 acres of land in Douglas, Ormsby, Lyon, and Churchill Counties in Nevada. This river takes its name from the famous scout and guide Kit Carson, who accompanied the intrepid Fremont on his journey across Nevada along the Humboldt, Carson, and Walker Rivers into California. The Carson Valley, in Douglas County, is exceptionally fertile, and is well cultivated. The east and west forks of the Carson both offer opportunities for power development that seem now about to be utilized. The river empties into the Carson Sink and evaporates. When the Comstock mines were pouring out ore of phenomenal richness, it was hauled in cars to the Carson River and on its banks great mills were erected. The river furnished the power and the water necessary. Many of these mills are standing yet. Some are doing a little work; others have been torn down and moved away. The recent flood has torn out some of the old dams, while nearly every bridge, from one end of the

river to the other, was either utterly wrecked or put out of business.

The Truckee River is the outlet of Lake Tahoe, and flows through Placer and Nevada Counties in California, and Washoe County in Nevada into Pyramid Lake in Washoe County. Its total length is about 125 miles, and in that distance the river falls nearly 2,500 feet. It is being used to generate power at five different points. At each point nearly the total available flow of the river is utilized and about 350 feet of fall has been secured. About 7,000 horse power is being generated and is being transmitted for lighting purposes to Truckee, Verdi, Reno, Carson, Virginia City, and Sparks. This power runs the paper mill at Floriston, supplies energy for the pumps at Virginia City, for the hoist and mill at the Rocky Hill mine, for the hoist at Como, and it is now being transmitted to Yerington for use in the hoists for the copper mines there. The Truckee River, with its tributaries, waters about 50,000 acres of land and is not now over-appropriated. The Reclamation Service has constructed a great canal capable of diverting 1,400 second feet of water from the Truckee to the Carson, a distance of 31 miles. This water will be stored in a great reservoir and used on 200,000 acres of land around the Carson Sink in Churchill County.

The Muddy River rises in springs in Lincoln County and flows south and east to its confluence with the Virgin about 20 miles north of the junction of that stream with the Colorado River at Riverville. The Muddy is only 40 miles long; in an Eastern State it would be called a creek. It carries about 50 second feet, and this serves to water 3,000 acres of valuable land. This is an almost tropical climate; figs, apricots, and other fruits, as well as vegetables, are grown with entire success. The river is unique in that so large a volume of water comes entirely from springs in low mountains, in a country with slight rainfall. The moisture that feeds these springs must come from melting snow on mountain summits a hundred miles away.

The Reese River rises in the Toiyabe and Shoshone ranges in Nye County and flows north toward the Humboldt. At one time it undoubtedly emptied into the Humboldt River at Battle Mountain, but now none of the water of the Reese ever reaches the Humboldt except in exceptional seasons. The stream is largely appropriated and irrigates 20,000 acres.

The Quinn River in Humboldt County flows south and west and empties upon the Black Rock Desert. It waters 10,000 acres. The river has a drainage area of about 4,000 square miles.

There are areas in Nevada as large as four townships where no living water can be found. A prospector who knows the country can, with his burro and pack outfit, go anywhere and maintain himself. Some of the stories of men perishing from thirst in Nevada are true. The seasoned prospector keeps well in mind where he will next connect with water. Flour or bacon or beans or coffee he can do without if need be, but water he must not be without for any length of time.

The brilliant sunlight, the gray lonely plain, the dark rugged mountain, have their own peculiar charm when seen under conditions of reasonable comfort. If, however, the traveler be worn out and discouraged, hard pressed for water, and uncertain where he will obtain his next supply, then the landscape has for him no beauty. It is a parched and arid plain. The gold locked in its hills has for him no lure. What he wants is water, and he would almost give his immortal soul for the chance to lie down beside a sparkling brook and drink and drink.—*Henry Thurtell in the Pacific Rural Press.*



## CLIMATOLOGICAL DATA FOR SEPTEMBER, 1907.

Stations.	Counties.	Elevation (feet).	Length of record (years).	Temperature (degrees Fahrenheit)						Precipitation (Inches)				Sky				Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Number rainy days.	Number clear days.	Number partly cloudy days.		Number cloudy days.	Prevailing direction of wind.	
Northern Section.																					
Aura	Elko	0																		E. J. Clark	
Battle Mountain a	Lander	4,511	37	60.4	-2.1	84	8	38	29	32	1.50	+1.24	1.50	0.0	1	21	2	7		Agent So. Pacific Co.	
Beowawe-3	Eureka	4,635	37													22	0	8		Agent So. Pacific Co.	
Carlin-3	Elko	4,897	37	62.4	+5.4	79	17	45	5	30	T	-0.27	T	0.0	0	19	1	10	sw	Agent So. Pacific Co.	
Clover Valley†	Elko	6,000	8	56.0		86	10	27	19	48	0.88		0.39	T	4	17	8	5		A. H. Wiseman	
Elko-3	Elko	5,063	37	58.3	+1.5	80	1	38	29	35	0.37	+0.14	0.25	0.0	3	13	0	17		Agent So. Pacific Co.	
Fenelon	Elko	6,128	20								0.95	+0.55	0.70	7.0	3	21	8	1	w	Agent So. Pacific Co.	
Golconda	Humboldt	4,392	29	60.4	+1.1	90	10	28	19	44	0.55	+0.26	0.50	0.0	2	25	2	3	n	Agent So. Pacific Co.	
Halleck-3	Elko	5,229	35	56.2	-0.8	85	11	27	13	53	0.92					16	9	5		Agent So. Pacific Co.	
Humboldt	Humboldt	4,236	36	60.7	-0.6	88	7	40	18	40	0.40	+0.22	0.40	0.0	1	24	3	3	sw	Agent So. Pacific Co.	
Mill City-3	Humboldt	4,225	19	60.3	-2.3	90	10	32	19	36	0.12	-0.08	0.12	0.0	1	17	7	6	w	Agent So. Pacific Co.	
Palisade	Eureka	4,821	26																	Agent So. Pacific Co.	
Quinn River Ranch*	Humboldt	4,850	6	57.4		94	9	22	19	59	0.29		0.14	0.0	3	21	5	4	sw	F. M. Payne	
San Jacinto	Elko		3	54.2		85	10	23	14	56	0.92		0.64	0.0	2	21	5	4		Moses Jones	
Squaw Valley**-2	Elko	5,100	1	55.8		92	8	17	17	67	0.80		0.80	T	1	19	7	4	sw	Chas. D. Dorsey	
Tecoma	Elko	4,812	30	56.0	-6.3	89	9	23	19	49	0.52	+0.22	0.50	0.0	2	25	0	5	NE	Agent So. Pacific Co.	
Wells	Elko	5,623	36	63.8	+4.9	91	25	38	29	49	0.00	-0.24	0.00	0.0	0	13	6	11	s	Agent So. Pacific Co.	
Winnemucca	Humboldt	4,432	29	58.3	-2.5	91	10	27	19	50	0.47	+0.13	0.35	0.0	4	20	5	5	NE	U. S. Weather Bureau	
Means				58.2							0.60			0.5	2	20	4	6	sw		
Eastern Section.																					
Hamilton	White Pine	7,977	1																	Geo. Allen	
McGill	White Pine		0																	W. G. Perkins	
Means																					
Central Section.																					
Austin	Lander	6,594	19	57.9	-2.7	83	10	31	29	32	0.91	+0.54	0.65	3.0	2	18	7	5	w	F. H. Triplett	
Eureka	Eureka	6,500	5	58.4		88	10	28	19	44	0.64		0.22	0.2	5	14	11	5	s	Clay Simms	
Millett	Nye		0	56.4		88	10	22	19	55	0.07		0.07	0.0	1	20	6	4	s	Fred J. Jones	
Potts	Nye	6,990	15	51.2	-10.9	85	9	18	19	55	0.15	+0.07	0.10	3.0	2	10	13	7	n	Miss Mamie Potts	
Means				56.0							0.44			1.3	2	16	9	5	s		
Western Section.																					
Carson Dam††	Churchill	4,032	1	62.3		92	10	34	19	41	T		T	0.0	0	17	5	8	w	J. M. Heizer	
Fallon †	Churchill	3,965	3	60.1		95	10	29	19	50	0.12		0.12	0.0	1	28	1	1		U. S. Reclamation Serv.	
Fernley ††	Lyon		0	63.4	-2.6	95	10	34	19	45	0.27	+0.09	0.20	0.0	3	23	3	4		U. S. Reclamation Serv.	
Gardnerville	Douglas	4,830	9																	Lawrence Ezell	
Hazen-2	Churchill	4,050	1																	U. S. Reclamation Serv.	
Leetville †	Churchill	4,020	1	61.4		96	10	30	19	47	T		T	0.0	0	25	5	0	w	U. S. Reclamation Serv.	
Lewers' Ranch†	Washoe	5,500	20	57.2	-3.1	92	9	30	18	44	T	-0.79	T	0.0	0	10	19	1		Ross Lewers	
Reno	Washoe	4,532	37	58.7	-1.0	90	9	33	19	44	0.05	-0.22	0.04	0.0	2	20	10	0	w	Central Office	
Soda Lake † a	Churchill	4,005	1	62.4		95	12	26	18	54	0.33		0.20	0.0	3	20	4	6	NE	U. S. Reclamation Serv.	
Stillwater	Churchill	3,895	1																	Lish Sanford	
Wabuska	Lyon	4,347	5	57.9		90	10	26	27	49	0.02		0.02	0.0	1	22	8	0	nw	J. G. Young	
Means				60.4							0.11			0.0	1	21	7	2	w		
Southern Section.																					
Columbia	Esmeralda	5,750	1	61.6		91	10	31	19	41	T		T	0.0	0	19	11	0	s	Will W. Thompson	
Geyser	Lincoln		3	52.6		89	9	18	27	60	0.00		0.00	0.0	0	17	13	0	s	J. F. Wambolt	
Jean	Lincoln	2,074	0	81.6		101	10	52	19	30	0.05		0.05	0.0	1	21	7	2	s	Agent Salt Lake Route	
Las Vegas	Lincoln		0	74.8		107	9	38	21	56	T		T	0.0	0					Agent Salt Lake Route	
Logan	Lincoln	1,700	1	75.6		108	12	43	18	49	0.38		0.38	0.0	1	22	7	1	s	Chas. Arney	
McAfee's Ranch* a	Esmeralda	4,835	4	51.4		90	9	12	20	66	T		T	0.0	0	23	1	6	s	G. A. McAfee	
Mina	Esmeralda	4,600	1																	Agent So. Pacific Co.	
Palmetto	Esmeralda	6,780	18	54.6	-3.6	88	10	21	27	51	0.31	-0.16	0.31	T	1	21	4	5	SE	Wm. Oothout, Jr.	
Pioche	Lincoln	6,100	3																	A. A. Carman	
Tonopah	Nye	6,000	1	61.6	+3.5	85	10	33	29	29	0.04	-0.46	0.04	0.0	1	19	10	1	SE	U. S. Weather Bureau	
Means				64.2							0.10			T	1	20	8	2	s		
State Means and Extremes.					59.9	-0.2	108	12	12	20	67	0.35	-0.04	1.50	0.4	2	20	6	4	s	

REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station indicates the number of days missing from the record; for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

†Postoffice—Wells. †Postoffice—Franktown. †Postoffice—Amos. \*Postoffice—Dyer †Postoffice—Fallon. \*\*Postoffice—Golconda. ††Postoffice—Hazen. ††Postoffice—Wadsworth.

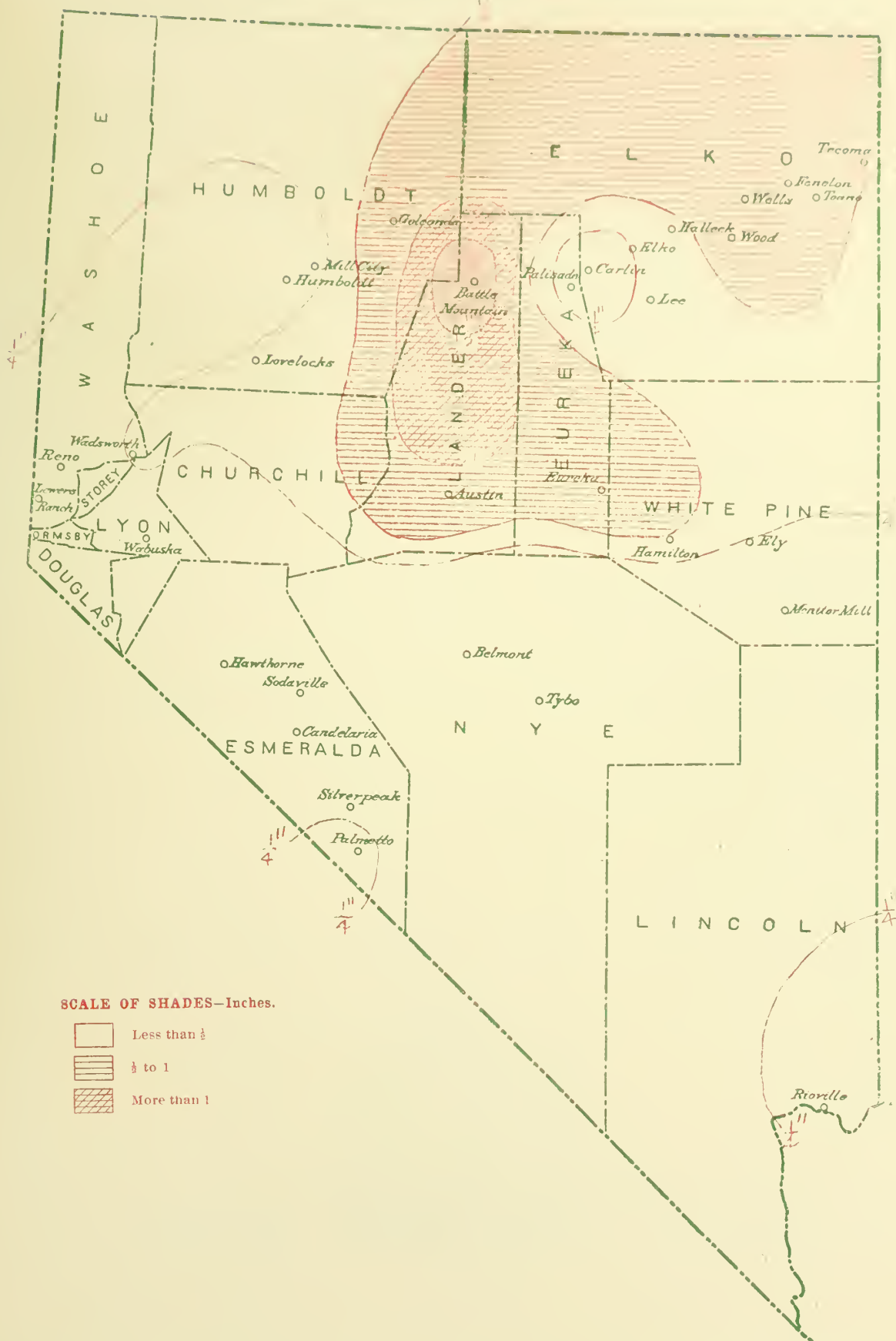


DAILY MAXIMUM AND MINIMUM TEMPERATURES FOR SEPTEMBER, 1907.

Stations.	Day of Month.																															Monthly Means.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Austin.....	Max. 72	74	78	75	70	76	78	80	81	83	79	73	70	72	73	69	52	60	67	71	75	77	77	77	77	71	61	71	56	40	56	70.2	
Battle Mountain.....	Min. 46	45	49	48	49	52	51	50	52	55	56	52	50	51	41	78	40	34	33	38	46	46	54	50	54	54	35	40	37	31	36	45.6	
Carson Dam.....	Max. 74	76	78	76	77	78	80	84	82	78	79	76	76	78	78	76	76	76	76	76	74	74	72	72	70	70	70	70	70	40	54	73.9	
Clover Valley.....	Min. 50	50	52	50	50	52	50	52	50	48	48	46	46	48	48	48	44	45	46	44	46	46	45	45	44	41	46	40	38	39	46.9		
Columbia.....	Max. 48	44	55	54	58	58	57	56	57	56	47	56	41	46	43	41	38	38	34	38	40	41	47	44	60	44	44	39	42	42	42	77.8	
Eureka.....	Min. 75	75	82	63	75	80	82	80	82	86	84	72	68	75	78	73	50	68	67	70	74	74	81	84	71	63	75	68	51	67	38.3		
Fallon.....	Max. 45	40	43	48	41	42	44	41	45	42	44	55	51	31	34	35	35	28	30	32	32	33	33	41	45	45	30	40	32	33	41	77.7	
Fernley.....	Min. 75	78	82	75	78	78	85	88	90	91	88	83	84	80	88	81	68	70	74	77	81	79	79	79	79	58	69	70	76	54	67	45.5	
Gardnerville.....	Max. 50	49	51	49	50	47	44	44	50	51	56	52	54	43	63	30	34	36	31	36	38	42	46	51	58	39	41	38	37	31	41	45.5	
Geyser.....	Min. 75	78	81	70	73	79	83	82	85	88	86	80	76	74	73	74	64	65	71	76	80	81	81	81	76	66	74	66	48	61	61	71.8	
Golconda.....	Max. 53	46	47	49	46	45	44	45	44	52	50	48	39	36	39	37	34	28	31	38	36	36	43	47	58	33	35	39	32	38	42	78.6	
Hamilton.....	Min. 75	76	75	81	83	80	84	89	92	93	92	85	77	81	80	78	71	65	70	71	65	85	87	87	79	71	79	65	33	71	41	46	79.0
Hazen.....	Max. 46	47	45	44	53	52	54	45	47	49	49	49	38	39	40	35	36	36	29	36	29	36	37	37	54	34	34	42	33	73	73	47.8	
Jean.....	Min. 74	77	78	81	80	83	88	89	91	95	89	79	78	79	78	75	69	66	72	76	81	83	80	87	87	77	66	77	66	41	44	79.0	
Las Vegas.....	Max. 44	46	58	62	53	55	57	50	49	59	54	54	51	33	41	45	46	41	34	38	37	47	37	42	58	45	37	44	44	44	44	47.8	
Leetville.....	Min. 74	74	74	74	74	76	83	80	89	86	86	86	77	75	76	75	76	74	74	75	75	75	80	76	70	78	72	72	70	70	70	76.9	
Lewers' Ranch.....	Max. 69	75	77	76	79	83	84	92	86	81	77	74	70	71	68	66	64	64	64	81	94	99	96	91	96	93	91	92	80	95.8			
Logan.....	Min. 46	35	35	45	46	44	44	44	48	52	58	48	38	36	36	46	44	44	30	35	36	48	52	32	34	30	37	36	37	31	40.8		
McAfee's Ranch.....	Max. 97	97	92	93	99	100	105	104	105	104	105	108	100	96	95	94	94	89	87	91	94	99	96	91	96	90	93	91	92	80	95.8		
McGill.....	Min. 55	61	67	63	64	60	58	60	58	58	58	58	58	55	65	47	50	43	45	45	55	54	56	65	65	48	49	48	48	48	55.4		
Millett.....	Max. 78	81	76	76	73	79	83	86	89	90	89	87	83	79	80	76	80	76	70	75	78	82	80	82	80	75	70	61	70	70	78.2		
Mina.....	Min. 36	35	37	35	25	25	25	27	29	30	35	30	21	20	21	32	67	13	15	12	16	17	23	27	31	13	17	23	17	20	20	24.7	
Palmetto.....	Max. 76	80	83	77	78	81	86	88	87	88	88	88	78	77	75	76	75	68	67	73	77	81	78	82	85	77	78	70	74	69	78.7		
Pioche.....	Min. 55	37	43	42	60	39	36	39	39	40	41	46	39	28	29	29	29	35	22	25	26	26	24	30	33	35	23	29	34	30	34.2		
Pots.....	Max. 70	76	80	70	73	74	77	79	85	80	81	77	71	71	70	68	69	61	68	70	70	73	77	75	71	64	70	66	61	67	72.1		
Quinn River Ranch.....	Min. 41	31	37	49	35	33	31	31	30	32	38	41	27	23	25	30	25	25	18	25	22	23	30	31	48	25	22	22	25	30	30	30.4	
Reno.....	Max. 71	78	83	79	81	85	90	90	94	94	97	83	79	73	77	87	61	65	22	28	27	80	86	88	86	86	76	60	76	68	73.6		
San Jacinto.....	Min. 24	31	45	53	40	43	40	39	36	37	43	45	28	28	28	28	28	22	22	28	29	29	29	29	29	34	30	43	43	43	35.3		
Soda Lake.....	Max. 70	76	79	77	79	82	85	86	90	90	84	77	76	74	73	70	62	63	68	72	78	81	85	84	65	70	75	56	62	69	75.3		
Squaw Valley.....	Min. 42	37	54	47	50	48	47	46	47	53	48	45	38	39	38	41	38	34	33	36	38	38	41	42	42	79	37	35	42	34	42.1		
Tecoma.....	Max. 77	77	83	68	74	77	77	77	80	83	84	83	78	78	78	78	80	80	76	72	68	69	70	78	80	79	79	64	64	68	74.8		
Tonopah.....	Min. 47	38	36	42	44	42	39	40	34	33	34	30	23	23	31	33	36	35	30	27	24	26	30	32	35	33	29	36	30	30	33.6		
Wabaska.....	Max. 71	78	75	82	82	84	83	83	88	92	94	95	85	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	80.8	
Winemucca.....	Min. 48	55	58	51	52	56	56	56	63	63	65	62	58	50	49	50	46	44	44	44	50	55	56	58	58	45	45	37	49	37	77.3		
.....	Max. 76	76	82	81	84	89	89	90	89	90	86	80	75	76	75	76	73	64	68	71	75	80	81	81	85	82	82	65	65	65	70	38.5	
.....	Min. 38	37	77	77	76	82	83	83	89	91	86	78	73	72	76	73	68	64	67	74	79	81	85	86	77	70	75	59	60	67	76.1		
.....	Max. 73	70	74	74	73	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	40.3	



TOTAL PRECIPITATION FOR SEPTEMBER 1907.





[illegible]

T indicates trace. \*Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, - J. G. McCARTHY, SUPT.  
UNION LABEL  
REGISTERED TRADE MARK  
MADE IN U.S.A.

1907



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR OCTOBER, 1907.

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NEVADA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

IN COOPERATION WITH THE

NEVADA STATE WEATHER SERVICE

---

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

---

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

HARRY O. GEREN

SECTION DIRECTOR

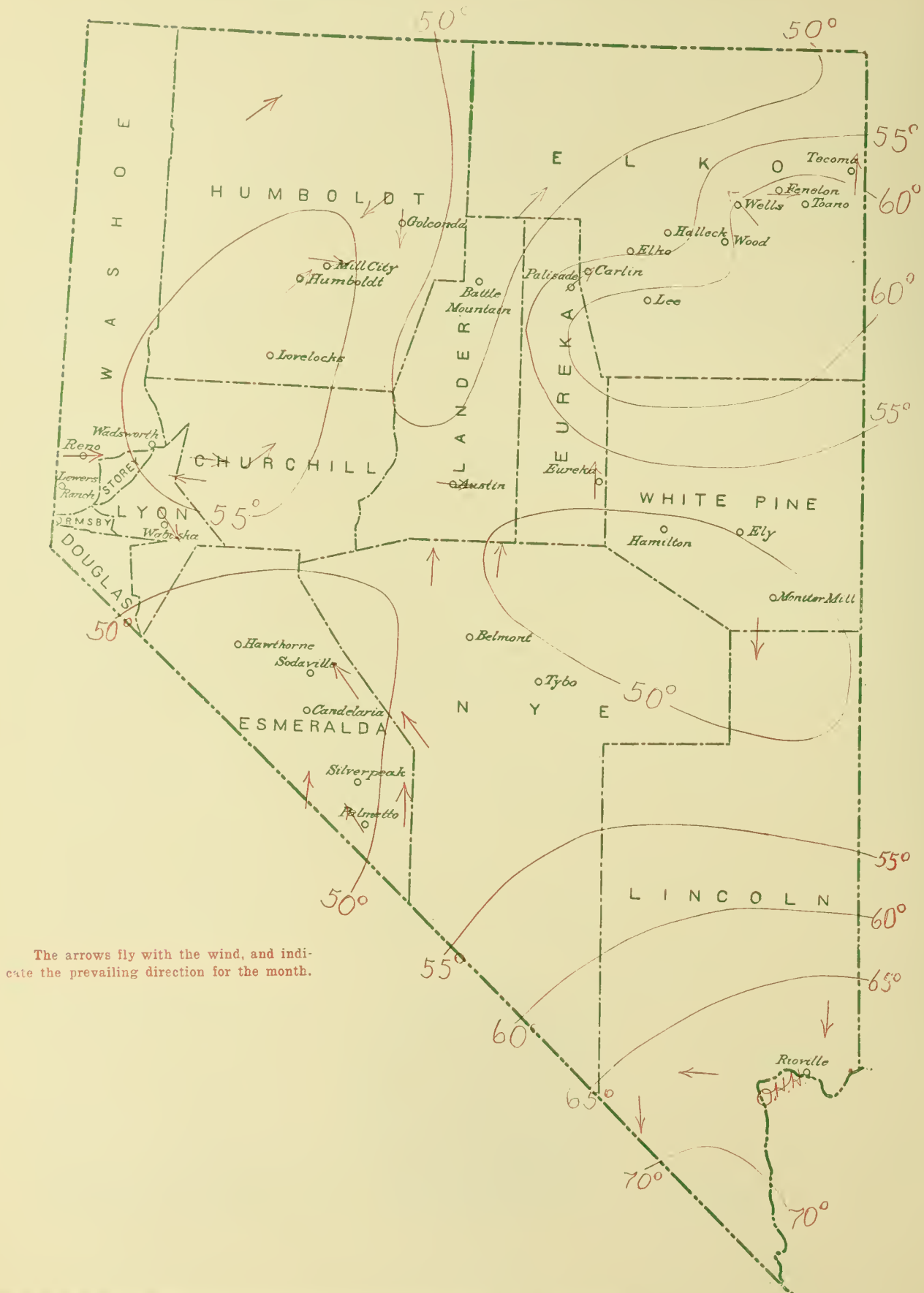


CARSON CITY, NEVADA:

December 4, 1907



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTION FOR OCTOBER, 1907.





U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**  
 OF THE  
**WEATHER BUREAU.**  
 CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,  
 HARRY O. GEREN, Section Director.

VOL. XXI. RENO, NEVADA, OCTOBER, 1907. No. 10.

**GENERAL SUMMARY.**

This month was the warmest October on record, the mean temperature being two degrees higher than that of the next warmest, which occurred in 1889. The departure from the normal was greatest over the northern portion. At Winnemucca, where there is a record extending back to 1877, it was the warmest October; at Reno it was exceeded slightly by the October of 1903. The temperature was generally below normal during the first few days of the month, rising gradually after that until the 12th, the highest temperature for the month being recorded almost entirely during the first eleven days. The greatest departures above the normal occurred, however, later on, from the 17th to the 21st, after which there was a gradual reduction toward the normal conditions which prevailed at the close. Freezing temperatures were recorded at nearly all stations, the exceptions being confined to a few stations in the most extreme southern portion.

The precipitation at several scattered stations exceeded that for any other October, but the month, as a whole, can be classed as only a fairly wet one. The southern half of the State received the greater portion. Rain fell over the northern portion on the 1st, 12th, and from the 24th to the 28th, while over the southern counties it was rather general on the 1st and 5th, and well distributed from the 15th to the 27th. Snow occurred at a few stations of high altitude.

**Temperature.**

The mean temperature for the State was  $54.2^{\circ}$ , which is  $4.9^{\circ}$  higher than the normal for the month, and  $4.3^{\circ}$  higher than the mean for the corresponding month of 1906. The highest monthly mean temperature was  $69.8^{\circ}$ , at Jean, Lincoln County. The lowest monthly mean temperature was  $45.8^{\circ}$ , at McAfee's Ranch, Esmeralda County. The highest temperature was  $96^{\circ}$ , at Logan, Lincoln County, on the 4th, and the lowest was  $13^{\circ}$ , at McAfee's Ranch, Esmeralda County, on the 28th. The greatest daily range was  $58^{\circ}$ , at Squaw Valley, Elko County, on the 28th, and at McAfee's Ranch, on the 15th.

**Precipitation.**

The average amount for the State was 0.98 inch, which is 0.43 inch more than the normal for the month, and 0.88 inch more than the average for the corresponding month of

1906. The greatest monthly amount was 6.93 inches, at Palmetto, Esmeralda County, while at Humboldt, Humboldt County, Wells, Elko County, and Mina, Esmeralda County, there was no precipitation at all. The greatest amount recorded in twenty-four hours was 1.28 inches, at Palmetto, Esmeralda County, on the 23d. The average number of days with 0.01 inch or more of precipitation was 4.

**Wind.**

The prevailing direction of the wind was south. The average hourly velocity at Reno was 3.7 miles; at Tonopah it was 8.8 miles, and at Winnemucca it was 5.2 miles. The maximum velocity for a period of five minutes at Reno was at the rate of 24 miles per hour, northwest, on the 1st; at Tonopah it was 34 miles, northwest, on the 3d, and at Winnemucca it was 18 miles, northwest, on the 1st.

**Sunshine and Cloudiness.**

The average number of clear days was 16, partly cloudy days 8, and cloudy days 7.

**COMPARATIVE STATE DATA FOR OCTOBER.**

Year.	Temperature.			Average precipitation.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1889.....	52.2	103	-14	1.48	8	8	13	10	s
1890.....	50.5	92	8	0.26	3	17	11	3	sw
1891.....	51.2	88	0	0.04	0	20	8	3	s
1892.....	47.5	91	2	0.32	3	15	12	4	sw
1893.....	48.7	94	8	0.12	1	18	10	3	sw
1894.....	51.7	94	5	0.33	2	22	4	5	sw
1895.....	49.9	100	-5	0.26	2	21	6	1	w
1896.....	50.3	94	11	0.24	1	19	7	5	w
1897.....	47.1	95	9	1.71	6	15	7	9	w
1898.....	45.9	86	7	0.23	2	19	5	7	w
1899.....	45.5	89	4	0.74	3	15	6	10	w
1900.....	47.7	82	4	0.80	3	15	7	9	sw
1901.....	50.7	90	17	1.11	5	16	6	9	sw
1902.....	50.0	97	.....	0.27	1	20	5	6	s
1903.....	51.0	90	11	0.29	1	23	4	4	sw
1904.....	47.8	91	6	1.20	4	17	6	8	s
1905.....	45.8	96	0	0.05	0	24	4	3	n
1906.....	49.9	100	1	0.10	0	21	6	4	w
1907.....	54.2	96	13	0.98	4	16	8	7	s
Entire period.....	49.3	103	-14	0.55	3	18	7	6	sw

**MISCELLANEOUS PHENOMENA.**

*Fog*—Millet, 31st; Palmetto, 5th, 16th, 17th, 18th, 24th, 25th, 26th, 27th; Reno, 29th; Squaw Valley, 13th, 14th, 15th, 16th, 26th, 27th.

*Halos, Lunar*—Reno, 15th, 18th, 29th; Tonopah, 15th, 30th; Winnemucca, 27th.

*Hail*—Austin, 19th; Carlin, 24th; Palmetto, 22d; Potts, 21st; Reno, 1st.

*High Winds*—Columbia, 1st, 2d, 3d, 6th, 11th; Clover Valley, 2d, 3d; Las Vegas, 11th, 12th, 15th; Millet, 1st; Palmetto, 2d, 3d; Potts, 11th, 12th, 22d, Squaw Valley, 2d.

*Sleet*—Carlin, 20th.

*Thunderstorms*—Carson Dam, 26th; Fenelon, 12th, 13th;



Las Vegas, 17th, 23d; Leetville, 26th; Palmetto, 19th, 22d; Reno, 10th, 20th, 25th; Winnemucca, 1st, 19th.

### CLIMATOLOGY OF AUSTIN, NEVADA.

Austin is situated in the south-central portion of Lander County, in latitude  $39^{\circ} 29'$  north, and longitude  $117^{\circ} 5'$  west. It is one of the most elevated stations in the State, its altitude being 6,594 feet. The surrounding country is mountainous. The record is quite complete, except for the year 1899, January, February and March of 1900, and five months of 1905, when it was not kept. There are several other months missing in other years, and the mean temperatures for the missing months were obtained by applying the departure from the normal of the station at Potts for those months to the normal at Austin, the normals in both cases being computed from records extending over the same years.

The warmest month, July, has a normal temperature of  $69.1^{\circ}$ , and the coldest month, January, a normal of  $26.8^{\circ}$ . The various years differ but slightly in their mean annual temperatures, the range being from an average of  $45.1^{\circ}$  in 1893, to  $48.5^{\circ}$  in 1904, a range of but  $3.4^{\circ}$ . The warmest month on record was July, 1889, the mean temperature being  $73.7^{\circ}$ , while the coldest was February, 1903, when the average was  $20.3^{\circ}$ , giving a range of  $53.4^{\circ}$  between the means of the warmest and coldest months on record. The highest temperature ever observed was  $101^{\circ}$ , in July, 1894, while the lowest was  $18^{\circ}$  below zero, in January, 1888. This makes an extreme range in temperature during the length of the record of  $119^{\circ}$ . This range is smaller than that at most other stations in the State, but the elevation of the station is considerably greater. Freezing temperatures have been recorded in every calendar month, and there have been only a few instances in which the temperature rose above  $95^{\circ}$ .

The precipitation averages 11.78 inches annually, with the greatest normal monthly amount, 1.65 inches, in May, and the least, 0.44 inch, in July. It is quite evenly distributed throughout the year, the six months from December to May, inclusive, having approximately the same average, 1.39 inches, while the remaining six months all have normals close to 0.58 inch. The wettest periods, with the amount falling during each, were as follows: Three consecutive months, 8.44 inches, January, February and March, 1890; four consecutive months, 11.10 inches, from December, 1889, to March, 1890, inclusive; five months, 12.54 inches, from February to June, inclusive, 1891; six months, 13.84 inches, from December, 1889, to May, 1890, inclusive. The driest periods, with the amount of precipitation in each, were as follows: Three consecutive months, 0.04 inch, September, October and November, 1903; four consecutive months, 0.17 inch, from September to December, inclusive, 1903; five months, 0.47 inch, from August to December, inclusive, 1903, and six months, 0.47 inch, from July to December, inclusive, of the same year. The month with the greatest amount of precipitation was December, 1891, with a total of 4.31 inches. There have been seven months during which no rain or snow fell. The wettest year was 1891, when the total precipitation amounted to 21.07 inches, while the driest year was 1896, with a total of 8.45 inches.

The observations were taken by Thomas Taylor during 1888, by O. B. Vincent from 1889 to 1892, by M. D. Murphy from 1893 to 1898, inclusive, by G. M. Dyer from 1900 to 1902, and by H. W. Dyer from 1902 to 1905. During 1906 Dr. W. H. Heinzmann kept the record, and the present observer is F. H. Triplett.

The following tables show the record so far as it is available:

Monthly and Annual Precipitation.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1888	1.87	0.30	0.10	0.25	1.00	T	0.09	.....	1.00	.....	0.60	0.10	.....
1889	0.60	.....	.....	.....	0.25	1.00	0.00	.....	.....	.....	0.54	2.66	.....
1890	3.64	1.82	2.98	1.26	1.48	0.05	0.30	1.16	0.45	0.61	0.10	1.10	14.95
1891	0.45	1.77	2.01	2.31	3.81	2.64	1.26	1.09	0.85	0.34	0.23	4.31	21.07
1892	0.63	0.56	1.72	1.34	1.90	1.47	0.07	T	0.18	0.24	0.40	1.92	10.43
1893	1.22	1.39	0.72	2.85	0.80	0.00	1.02	0.60	0.32	0.07	0.55	0.59	10.13
1894	1.39	1.89	1.63	1.82	0.85	2.44	1.27	0.50	0.33	0.00	T	2.77	14.89
1895	1.43	1.29	0.49	0.61	2.66	0.05	T	0.14	T	0.51	1.04	1.00	9.22
1896	1.39	0.05	1.30	1.41	1.76	0.13	0.85	0.58	0.39	0.00	0.41	0.18	8.45
1897	1.30	2.11	1.79	0.94	0.61	0.79	0.39	0.38	0.07	2.76	0.55	1.20	12.89
1898	1.60	0.27	1.43	1.16	4.18	0.05	0.40	0.56	0.30	0.24	1.88	1.14	13.21
1899	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1900	.....	.....	.....	2.09	1.20	0.63	0.79	T	0.15	1.03	0.86	0.09	.....
1901	1.24	4.14	0.49	0.15	2.02	0.05	0.51	1.84	0.22	1.79	0.88	0.40	13.73
1902	0.43	1.10	1.51	1.18	0.98	0.00	0.48	0.32	0.34	.....	1.26	0.39	.....
1903	1.80	0.49	2.40	1.91	1.57	0.60	0.00	0.30	T	0.00	0.04	0.13	9.24
1904	1.01	2.22	0.88	1.98	1.21	0.05	0.31	1.13	3.03	.....	T	0.88	.....
1905	0.71	.....	1.51	0.91	0.99	0.03	0.03	.....	.....	.....	.....	0.73	.....
1906	0.31	.....	.....	2.56	2.50	1.28	0.23	0.97	0.60	0.30	1.41	1.83	.....
Means	1.24	1.39	1.40	1.45	1.65	0.63	0.44	0.64	0.51	0.61	0.63	1.19	11.78

Monthly and Annual Mean Temperatures.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1888	.....	34	.....	50	.....	60	71	70	74	55	39	35	.....
1889	24	32	42	53	53	67	74	72	.....	42	42	32	.....
1890	21	30	37	45	55	59	71	66	60	46	40	34	47
1891	25	27	33	44	51	55	68	68	57	50	42	25	45
1892	27	30	37	40	49	59	67	69	63	47	39	27	46
1893	33	27	33	35	50	60	67	68	54	46	35	33	45
1894	26	24	34	43	53	53	69	68	56	49	42	26	45
1895	25	30	35	45	52	59	66	68	57	48	33	27	45
1896	34	33	35	36	45	64	69	69	58	49	36	37	47
1897	30	28	28	45	54	59	67	72	58	45	40	28	46
1898	23	35	30	49	48	65	71	71	60	45	35	27	47
1899	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1900	36 <sup>1</sup>	36 <sup>1</sup>	42 <sup>1</sup>	40	54	66	69	63	54	46	41	34	48
1901	29	30	35	42	55	58	72	69	56	49	44	32	48
1902	27	35	30	42	50	63	66	65	59	49 <sup>1</sup>	34	31	46
1903	32	20	34	41	51	63	65	68	58	51	43	31	46
1904	26	34	37	43	52	62	68	68	62	46 <sup>1</sup>	45	39	48
1905	34	31 <sup>1</sup>	40	45	47	57	70	66 <sup>1</sup>	57 <sup>1</sup>	43 <sup>1</sup>	34 <sup>1</sup>	22	46
1906	30	36 <sup>1</sup>	35 <sup>1</sup>	43	50	58	73	69	60	50	33	33	48
Means	26.8	30.7	35.1	43.4	51.1	60.4	69.1	68.3	59.0	47.9	38.7	30.9	46.8

Extreme values in *italic type*.

<sup>1</sup>No record; mean obtained by applying the departure from the normal at surrounding stations to the normal for the month at Austin.

Temperature Extremes, 1888 to 1906, Inclusive.

Month.	Maximum.	Year.	Day.	Minimum.	Year.	Day.
January	56	1893	.....	-18	1888	.....
February	58	1902	17	-12	1903	14
March	71	1891	.....	3	1898	23
April	79	1888	.....	10	1893	.....
May	88	1889	.....	10	1896	.....
June	98	1889	.....	24	1894	.....
July	101	1894	.....	25	1888	.....
August	95	1889	.....	26	1888	.....
September	88	1888	.....	22	1895	.....
October	80	1906	2	15	1900	30
November	69	1904	9	0	1896	.....
December	57	1902	26	-7	1891	.....



## CLIMATOLOGICAL DATA FOR OCTOBER, 1907.

Stations.	Counties.	Elevation feet	Length of record (years)	Temperature (degrees Fahrenheit).						Precipitation (Inches)					Sky				Prevailing direction of wind	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snow fall (unmelted).	Number rainy days	Number clear days	Number partly cloudy days.	Number cloudy days		
Northern Section.																				
Aura	Elko		0																	E. J. Clark
Battle Mountain	Lander	4,511	37	48.6	-1.0	76	6	30	22	36	1.00	+0.56	1.00	0.0	1	23	7	1		Agent So. Pacific Co.
Beowawe-3	Eureka	4,635	37	61.3	+12.4	80	11	40	2	32	1.04	+0.61	1.00	0.0	5	18	4	9		Agent So. Pacific Co.
Carlin-3	Elko	4,897	37												26	0	5		sw	Agent So. Pacific Co.
Clover Valley†	Elko	6,000	8	51.9		80	11	26	2	43	0.63		0.18	0.0	5	16	10	5		A. H. Wiseman
Elko-3	Elko	5,063	37	57.2	+13.6	86	12	33	19	18				0.0					w	Agent So. Pacific Co.
Fenelon	Elko	6,128	20								0.70		0.45	0.0	3	18	10	3	w	Agent So. Pacific Co.
Golconda	Humboldt	4,392	29	52.2	+2.3	80	11	29	27	41					28	1	2		n	Agent So. Pacific Co.
Halleek-3 a	Elko	5,229	35	56.8	+12.6	80	5	27	3	48	0.75	+0.19	0.50	0.0	2	16	8	7		Agent So. Pacific Co.
Humboldt	Humboldt	4,236	36	55.9	+6.6	80	1	37	17	28	0.00	-0.47	0.00	0.0	0	26	4	1	sw	Agent So. Pacific Co.
Mill City-3	Humboldt	4,225	19	55.3	+3.6	80	8	33	29	35	1.06	+0.88	1.00	0.0	2	7	18	6	w	Agent So. Pacific Co.
Palisade	Eureka	4,821	26																	Agent So. Pacific Co.
Quinn River Ranch¶	Humboldt	4,850	6	53.9		84	8	22	3	54	0.51		0.30	0.0	4	15	8	8	sw	F. M. Payne
San Jacinto	Elko		3	48.8		75	6	20	30	48	0.69		0.32		3					Moses Jones
Squaw Valley**-2	Elko	5,100	1	49.8		78	1	18	28	58	0.38		0.38	0.0	1	19	9	3	sw	Chas. D. Dorsey
Teconia	Elko	4,812	30	50.8	+4.1	75	8	29	19	43	0.30	-0.10	0.30	0.0	1	27	0	4	s	Agent So. Pacific Co.
Wells	Elko	5,623	36	64.6	+18.6	88	5	37	29	41	0.00	-0.64	0.00	0.0	0	18	0	13	se	Agent So. Pacific Co.
Winnemucca	Humboldt	4,432	29	54.0	+5.4	81	11	29	29	45	0.60	+0.08	0.50	0.0	5	19	6	6	ne	U. S. Weather Bureau
Means				54.4							0.59			0.0	2	20	6	5	sw	
Eastern Section.																				
Hamilton	White Pine	7,977	1																	Geo. Allen
McGill	White Pine		0																	W. G. Perkins
Means																				
Central Section.																				
Austin	Lander	6,594	19	51.1	+2.5	70	8	29	3	28	0.36	-0.10	0.21	0.0	3	12	6	13	w	F. H. Triplett
Eureka	Eureka	6,500	5	51.0		73	10	28	2	41	0.85		0.41	1.5	5	7	12	12	s	Clay Simms
Millett	Nye		0	51.3		77	7	24	29	48	1.20		0.27	0.0	7	12	11	8	s	Fred J. Jones
Potts	Nye	6,990	15	46.3	-0.6	74	20	23	4	44	0.80	+0.71	0.20	1.0	8	4	11	16	s	Miss Mamie Potts
Means				49.9							0.80			0.6	6	9	10	12	s	
Western Section.																				
Carson Dam†† a	Churchill	4,032	1	56.5		81	6	30	31	38	0.39		0.19	0.0	3	14	11	6	e	J. M. Heizer
Fallon	Churchill	3,965	3								0.41		0.35	0.0	3					U. S. Reclamation Serv.
Fernley ††	Lyon		0	57.0	+5.6	82	7	31	4	42	0.83	+0.54	0.40	0.0	5	16	5	10		U. S. Reclamation Serv.
Gardnerville	Douglas	4,830	9																	Lawrence Ezell
Hazen-2	Churchill	4,050	1																	U. S. Reclamation Serv.
Leetville ¶	Churchill	4,020	1	55.8		82	10	27	3	42	0.80		0.40	0.0	2	20	8	3	w	U. S. Reclamation Serv.
Lewers' Ranch‡	Washoe	5,500	20	53.0	+1.8	80	7	30	31	39	1.20	-0.37	T		7	6	14	11		Ross Lewers
Reno	Washoe	4,532	37	53.8	+4.1	79	7	30	3	42	1.74	+1.33	0.84	0.0	9	13	11	7	w	Central Office
Soda Lake ¶ c	Churchill	4,005	1	56.8		84	6	25	2	47	0.54		0.41	0.0	4	20	0	11	sw	U. S. Reclamation Serv.
Stillwater	Churchill	3,895	1																	Lish Sanford
Wabuska	Lyon	4,347	5	52.9		81	10	25	4	50	0.66		0.60	0.0	3	15	16	0	nw	J. G. Young
Means				55.1							0.82			T	4	15	9	7	w	
Southern Section.																				
Columbia	Esmeralda	5,750	1	52.8		79	6	32	28	40	2.25		0.70	0.0	7	16	6	9	s	Will W. Thompson
Geyser	Lincoln		3	46.4		78	13	18	1	53	1.42		1.05	0.0	2	7	13	11	s	J. F. Wambolt
Jean f.	Lincoln	2,074	0	69.8		91	11	46	23	30	1.70		0.80	0.0	3	11	6	14	n	Agent Salt Lake Route
Las Vegas	Lincoln		0	66.6		94	11	41	2	44	0.46		0.19	0.0	6	12	13	6	e	Agent Salt Lake Route
Logan	Lincoln	1,700	1	68.6		96	4	45	1	40	1.80		0.92	0.0	3	12	14	5	n	Chas. Arney
McAfee's Ranch* a	Esmeralda	4,835	4	45.8		79	7	13	28	58	0.24		0.10	0.0	3	13	5	13	s	G. A. McAfee
Mina	Esmeralda	4,600	1	46.2		65	7	31	13	33	0.00		0.00	0.0	0	30	0	1	se	Agent So. Pacific Co.
Palmetto	Esmeralda	6,780	18	48.0	+0.1	75	10	26	4	42	6.93	+6.27	1.28	0.0	14	8	6	17	se	Wm. Oothout, Jr.
Pioche	Lincoln	6,100	3																	A. A. Carman
Tonopah	Nye	6,090	1	52.4	+4.0	72	7	30	2	31	1.23	+0.40	0.49	0.0	7	9	16	6	se	U. S. Weather Bureau
Means				55.2							1.78			0.0	5	13	9	9	se	
State Means and Extremes.				54.2	+4.9	96	4	13	28	58	0.98	+0.43	1.28	0.1	4	16	8	7	s	

REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station indicates the number of days missing from the record; for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

†Postoffice—Wells. †Postoffice—Franktown. †Postoffice—Amos. \*Postoffice—Dyer †Postoffice—Fallon. \*\*Postoffice—Golconda. ††Postoffice—Hazen. ††Postoffice—Wadsworth.

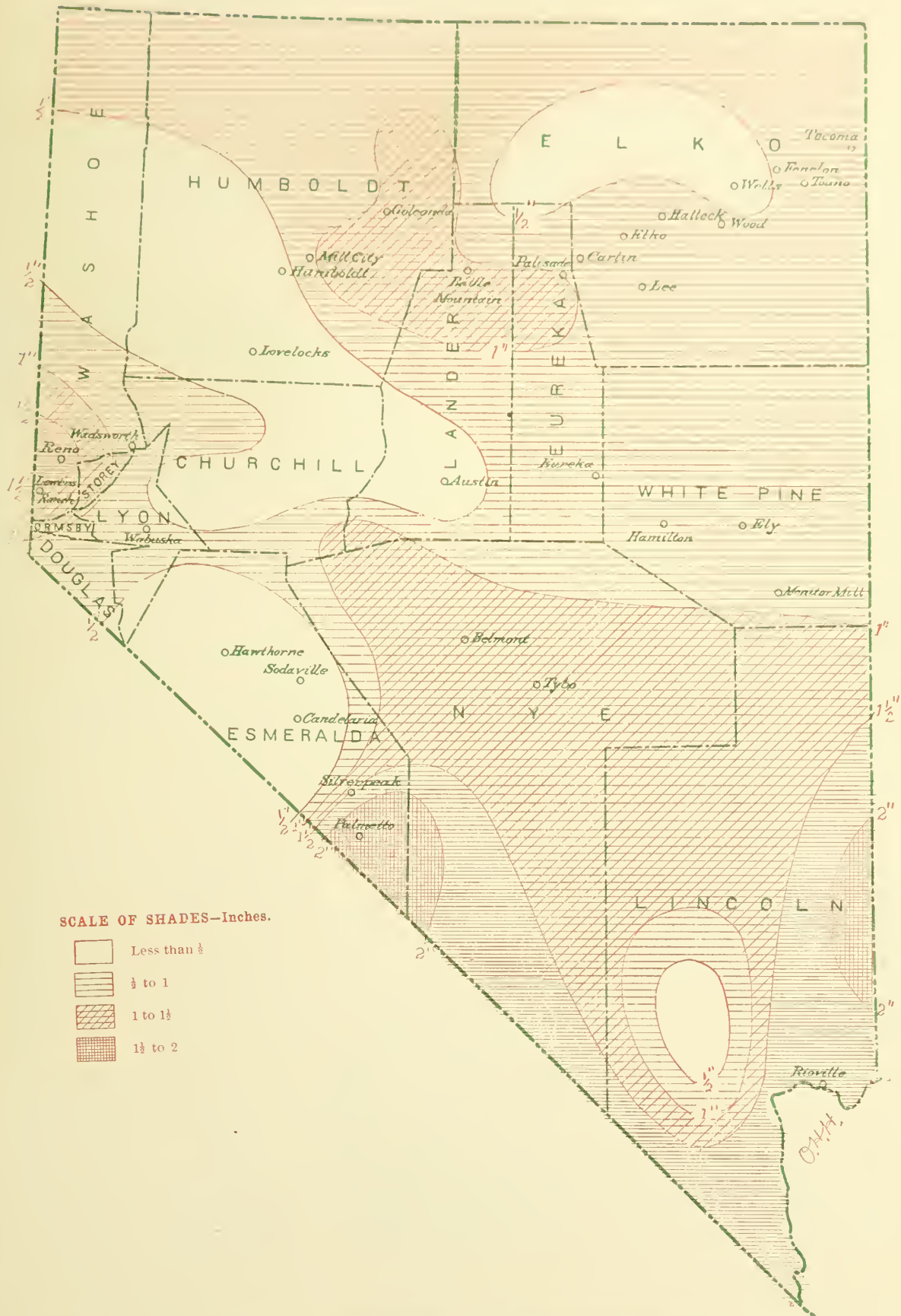


### Stations.

Stations.	Day of Month.																															Month.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Austin.....	Max. 51	40	52	65	66	67	68	70	68	70	69	66	63	65	66	65	62	65	66	65	65	64	66	55	55	54	54	54	49	55	50	50	60.8	
Battle Mountain.....	Min. 42	64	68	68	70	76	72	68	66	66	68	66	68	68	68	68	68	68	68	58	62	50	54	56	54	52	56	58	56	37	35	34	41.4	
Carson Dam.....	Max. 64	56	71	77	78	81	80	80	76	79	77	71	78	73	73	77	75	74	74	74	72	73	68	61	59	50	50	50	50	34	32	33	35.0	
Clover Valley.....	Min. 44	64	58	73	72	71	75	77	75	79	80	64	65	72	73	78	79	77	76	77	71	73	41	51	41	41	44	45	42	37	32	30	43.7	
Columbia.....	Max. 53	26	31	30	31	36	37	33	33	39	38	39	34	31	34	36	40	37	35	36	41	33	33	33	34	41	41	41	41	39	62	69.6		
Columbia.....	Max. 56	33	62	70	74	79	75	72	73	71	74	69	71	72	62	61	66	64	62	61	67	63	57	51	52	55	50	54	52	36	34	32	69.6	
Eureka.....	Min. 55	39	58	57	65	66	72	72	72	73	73	69	67	70	71	65	69	68	67	69	69	69	60	50	54	59	50	54	57	36	32	36	61.0	
Fallon.....	Max. 58	56	62	72	85	81	80	81	80	80	80	76	73	41	30	39	41	43	42	43	39	40	43	42	38	54	59	50	54	57	35	56	63.6	
Fernley.....	Min. 45	34	29	28	35	39	80	80	79	81	78	64	72	48	45	40	45	48	45	48	45	42	51	44	47	57	52	47	52	40	42	37	41.5	
Gardnerville.....	Max. 41	34	33	31	41	53	56	45	45	47	54	49	48	43	43	38	45	53	47	52	49	43	51	42	51	44	47	42	40	34	42	37	41.5	
Geyser.....	Min. 68	68	70	73	73	73	73	73	73	73	76	76	78	78	78	72	72	72	70	70	71	71	72	61	61	61	61	61	61	61	61	60	69.5	
Golconda.....	Min. 18	18	20	27	29	29	29	29	29	29	25	25	25	25	25	23	23	23	20	20	20	20	23	23	22	32	32	20	20	20	20	20	23.3	
Golconda.....	Max. 62	56	61	76	74	75	74	77	75	79	80	71	70	71	70	68	57	58	59	62	72	67	67	65	60	57	54	55	53	58	59	65.8		
Hamilton.....	Min. 39	35	34	35	41	39	35	38	60	45	47	45	43	44	42	40	42	42	43	41	38	37	37	34	31	32	29	31	30	31	33	33	38.5	
Hazen.....	Max. 84	77	81	86	73	85	87	90	93	94	94	93	90	86	86	85	86	85	83	83	82	82	74	60	58	54	58	58	57	56	75	82.1		
Humboldt.....	Min. 80	76	70	72	68	64	66	64	66	64	78	78	74	76	64	60	48	48	50	54	54	58	60	58	60	61	60	58	40	39	32	61	70.5	
Jean.....	Max. 58	48	50	48	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55.3	
Las Vegas.....	Min. 43	51	54	60	50	53	50	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54.0	
Leetville.....	Max. 60	57	62	73	78	81	81	80	82	79	68	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46.2	
Lewers' Ranch.....	Min. 44	55	64	72	76	77	80	76	71	80	74	65	70	74	74	76	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75.5	
Logan.....	Max. 58	55	64	72	76	77	80	76	71	80	74	65	70	74	74	76	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75.5	
Logan.....	Min. 41	31	39	33	37	41	41	41	41	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43.0	
Logan.....	Max. 85	80	95	96	75	74	84	87	91	93	93	94	91	86	90	82	77	81	82	85	83	83	83	83	83	83	83	83	83	83	83	83	83.0	
McAfee's Ranch.....	Min. 45	55	63	62	63	62	57	57	60	65	58	61	58	61	58	63	62	65	62	65	62	62	62	62	62	62	62	62	62	62	62	62	62.0	
McAfee's Ranch.....	Max. 64	55	67	73	76	79	75	76	75	76	75	76	71	71	73	76	67	70	69	70	70	65	52	58	49	57	55	50	47	48	45	45	55.3	
McGill.....	Min. 27	27	28	24	27	35	24	23	27	28	25	27	20	20	18	22	30	30	30	25	24	30	41	22	39	36	36	20	13	19	15	25.6		
McGill.....	Max. 63	53	62	75	74	72	77	76	74	77	77	74	71	73	75	64	71	69	70	70	70	67	63	62	60	60	60	55	59	61	56	60	67.5	
Millett.....	Min. 30	32	27	27	34	47	34	30	40	41	37	49	30	28	29	37	46	36	39	31	29	31	29	41	44	40	42	35	32	31	35	31	35.1	
Mina.....	Max. 58	59	57	61	64	62	65	62	60	61	62	64	59	58	59	62	57	54	53	56	59	54	59	54	58	57	59	59	61	60	59	59.1		
Palmetto.....	Min. 34	35	36	37	36	34	32	31	32	32	37	31	32	32	32	31	33	33	34	32	34	34	32	34	32	34	32	34	33	34	33	31	33.4	
Poche.....	Max. 64	48	60	68	55	63	74	70	74	75	74	70	70	70	68	52	55	58	64	65	68	62	48	50	45	52	48	52	55	50	55	50	60.7	
Poche.....	Min. 43	31	34	26	40	36	36	37	36	40	36	39	30	28	33	46	40	38	36	35	35	37	40	29	40	41	41	33	29	31	26	35.2		
Potts.....	Max. 57	42	57	67	64	62	65	65	67	68	67	65	61	63	66	65	68	68	70	67	65	60	64	49	47	45	45	45	45	45	45	45	49.0	
Potts.....	Min. 31	30	28	23	37	44	34	34	33	37	32	42	24	25	26	35	38	32	35	33	31	28	37	41	35	38	31	30	24	33	27	31	32.5	
Quinn River Ranch.....	Max. 60	59	71	80	81	80	81	80	82	81	81	71	78	78	76	78	78	78	77	78	78	77	76	74	68	65	63	60	59	58	58	58	73.6	
Reno.....	Max. 58	54	62	70	79	79	79	76	73	76	73	64	71	71	73	75	74	72	74	75	75	69	63	35	34	31	30	26	30	26	34	32	34.2	
San Jacinto.....	Min. 37	34	30	32	27	43	42	43	43	46	46	46	41	37	39	39	41	47	44	44	46	41	42	49	47	44	43	36	32	37	31	67.1		
San Jacinto.....	Max. 65	60	68	64	70	75	75	72	74	73	70	66	66	66	65	68	70	68	70	67	65	60	64	62	66	68	68	70	67	68	60	57	61	67.7
Soda Lake.....	Min. 34	31	35	36	32	30	28	30	27	33	34	34	35	35	33	30	32	34	32	30	27	23	23	26	28	26	26	25	25	26	26	26	26.9	
Soda Lake.....	Max. 78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78.0	
Squaw Valley.....	Min. 49	25	33	26	38	40	50	37	49	41	51	37	44	64	66	64	66	64	66	64	66	64	66	41	48	41	42	45	42	42	42	42	42.0	
Squaw Valley.....	Max. 32	36	34	30	28	29	28	30	32	36	34	32	31	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32.0	
Tecona.....	Min. 40	30	31	30	34	36	30	35	35	32	30	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68.0	
Tonopah.....	Max. 35	48	30	30	34	36	30	35	35	32	30	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68.0	
Tonopah.....	Min. 31	30	32	40	46	46	54	53	54	55	53	46	45	48	53	48	48	49	49	50	50	45	41	39	43	43	43	43	43	43	43	43	43.0	
Wabaska.....	Max. 68	58	63	75	76	79	78	81	75	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76.0	
Winnemucca.....	Min. 32	33	27	25	30	38	35	35	32	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36.0	
Winnemucca.....	Max. 53	57	64	73	78	79	79	79	76	80	81	40	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43.0	
Winnemucca.....	Min. 36	36	32	36	38	36	34	44	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46.0	



TOTAL PRECIPITATION FOR OCTOBER, 1907





## DAILY PRECIPITATION FOR OCTOBER, 1907.

Stations.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Northern Section.																																	
Aura	1.00																															1.00	
Battle Mountain	1.00	0.01																		T												1.04	
Beowawe																																	
Carlin																																	
Clover Valley	0.08											0.15													0.01		T	0.01	0.01				
Elko	0.05											0.45	0.25												0.16			0.06		0.18			
Fenelon																												T					
Golconda																																	
Halleck												0.50																					
Humboldt																												0.25					
Mill City	1.00											0.06																					
Paradise Valley																																	
Quinn River Ranch	0.30											0.15					0.20			0.20					0.20	0.15	0.10	0.05					
San Jacinto																																	
Squaw Valley												0.26																					
Tecoma		0.38																															
Wells										0.30																							
Winnemucca	0.50																			T													
Eastern Section.																																	
Hamilton																																	
McGill																																	
Central Section.																																	
Austin	0.21	T																															
Eureka	0.10																																
Millert	0.26															0.26			T														
Potts	0.05	T														T				0.10													
Western Section.																																	
Carson Dam	0.13																																
Fallon	0.01																																
Fernley	0.19																																
Gardnerville																																	
Hazen																																	
Leetville	0.40																																
Lewers' Ranch	0.20	0.10																															
Reno	0.30																																
Soda Lake	0.04									0.15	0.01																						
Stillwater																																	
Wabuska	0.01																																
Southern Section.																																	
Columbia	0.07																																
Geyser																																	
Jean																																	
Las Vegas																																	
Logan																																	
McAfee's Ranch																																	
Mina																																	
Palmetto																																	
Pioche																																	
Tonopah	0.03																																

T indicates trace. \* Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, -  - J. G. MCCARTHY, SUPT

1907



U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR NOVEMBER, 1907

NEVADA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

IN COOPERATION WITH THE

NEVADA STATE WEATHER SERVICE

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

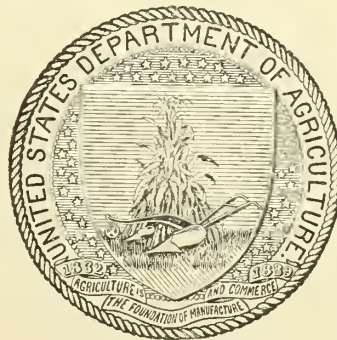
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

HARRY O. GEREN

SECTION DIRECTOR

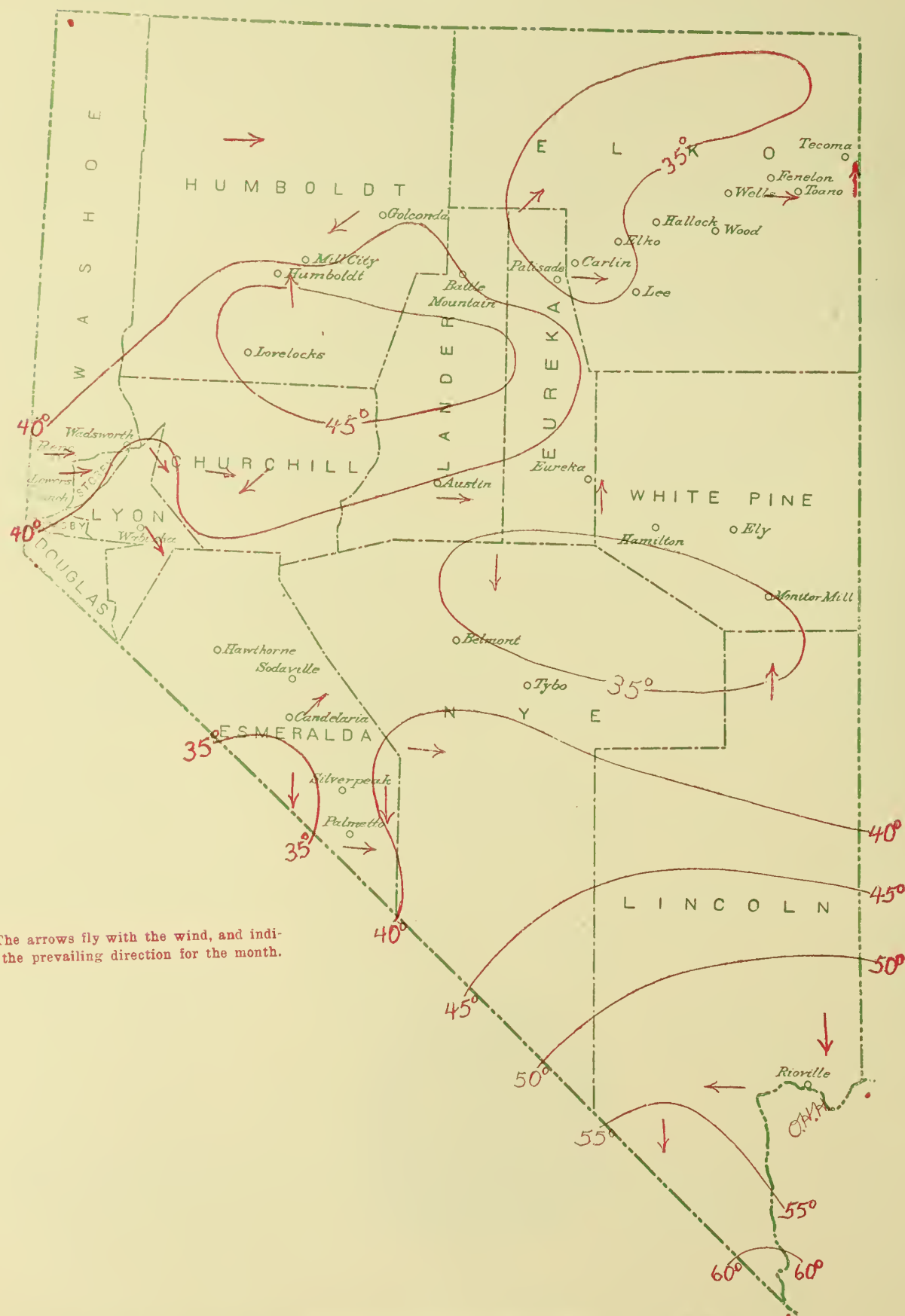


CARSON CITY, NEVADA:

January 10, 1908.



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR NOVEMBER, 1907.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**  
 OF THE  
**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,  
 HARRY O. GEREN, Section Director.

VOL. XXI. RENO, NEVADA, NOVEMBER, 1907. No. 11.

**GENERAL SUMMARY.**

Dry weather and practically normal temperatures prevailed during the month. During the first half of the month the temperature averaged a little above the normal. This was followed by a period of cold weather extending to the 22d, after which the temperature was generally above the normal. The majority of the maximum temperatures for the month were recorded during the first few days, while the minimum temperatures occurred mostly from the 15th to the 20th. At stations of high altitudes, the monthly means were only a little above the freezing point, while at moderate elevations they were generally about 40°, and at low altitudes 50° and above. Minimum temperatures of 32°, or below, were experienced at all stations except Jean.

The month is the fifth driest November of the nineteen on record. Practically all of the precipitation occurred from the 14th to the 22d, inclusive, most of it falling on the 17th. It was heaviest over the southern portions of Lander and Eureka Counties and the northeastern portion of Elko County. There was almost no precipitation over the southern half of the State. Snow fell at all stations, except a few of relatively small altitudes in the southern portion. The first killing frost of the season in the extreme southern portion of the State was observed at Logan,

**Temperature.**

The mean temperature for the State was 40.2°, which is 0.9° higher than the normal for the month, and 4.7° higher than the mean for the corresponding month of 1906. The highest monthly mean temperature was 57.9°, at Jean, Lincoln County. The lowest monthly mean temperature was 32.5°, at Potts, Nye County. The highest temperature was 78°, at Las Vegas, on the 1st, 3d and 4th, and at Logan, on the 1st and 9th. The lowest was 1° below zero, at McAfee's Ranch, Esmeralda County, on the 29th. The greatest daily range was 58°, at Squaw Valley, Elko County, on the 30th.

**Precipitation.**

The average amount for the State was 0.21 inch, which is 0.55 inch less than the normal for the month, and 0.72 inch less than the average for the corresponding month of 1906. The greatest monthly amount was 1.00 inch, at Fenelon, Elko County, and Austin, Lander County, while at eight

stations, mostly in the southern portion, there was no precipitation at all. The greatest amount recorded in twenty-four hours was 0.60 inch, at Mill City, Humboldt County, on the 17th. The average number of days with 0.01 inch or more of precipitation was 1.

**Wind.**

The prevailing direction was west. The average hourly velocity at Reno was 3.7 miles; at Tonopah it was 7.1 miles, and at Winnemucca it was 5.6 miles. The maximum velocity for a period of five minutes at Reno was at the rate of 25 miles per hour, southwest, on the 26th; at Tonopah it was 34 miles per hour, northwest, on the 17th, and at Winnemucca it was 32 miles per hour, southwest, on the 20th.

**Sunshine and Cloudiness.**

The average number of clear days was 20, partly cloudy days 5, and cloudy days 5.

**COMPARATIVE STATE DATA FOR NOVEMBER.**

Year.	Temperature.			Average precipitation.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1889	39.6	81	4	1.08	5	16	5	9	s
1890	40.9	86	5	0.18	0	23	6	1	s
1891	41.3	81	—2	0.09	1	13	9	8	z
1892	38.7	76	—13	2.08	4	8	16	6	z
1893	38.2	74	8	0.83	4	12	8	10	sw
1894	43.7	83	12	0.08	0	20	9	1	w
1895	35.9	80	—10	0.67	4	11	8	11	s
1896	35.6	79	—23	1.10	4	10	8	12	sw
1897	40.3	77	—6	0.69	3	12	8	10	w
1898	35.1	77	—10	1.10	4	15	6	9	w
1899	40.8	73	3	0.50	3	11	7	12	w
1900	40.7	78	1	1.34	5	13	6	11	sw
1901	43.1	80	12	0.53	2	14	9	7	sw
1902	37.2	82	—3	1.25	5	12	7	11	sw
1903	41.8	89	4	0.67	2	15	8	7	s
1904	41.8	80	2	0.06	0	16	8	6	w
1905	36.4	88	—10	1.11	4	16	5	9	s
1906	35.5	83	—22	0.93	4	10	8	12	s
1907	40.2	78	—1	0.21	1	20	5	5	w
Entire period	39.3	89	—23	0.76	3	14	8	8	w

**MISCELLANEOUS PHENOMENA.**

*Fog*—Reno, 5th; Tonopah, 17th.

*Halos, Lunar*—Reno, 13th, 18th, 19th, 22d, 25th, 28th; Tonopah, 16th; Winnemucca, 28th.

*High Winds*—Clover Valley, 17th, 20th, 26th; Columbia, 18th; Las Vegas, 16th; Palmetto, 17th, 18th, 21st.

*Killing Frost*—Logan, 14th, 18th, 20th.

*Sleet*—Fernley, 16th, 22d.

**CLIMATOLOGY OF POTTS, NEVADA.**

Potts is situated almost on the northern border of Nye County and near the middle of it. The latitude is 39° 7' north, and longitude 116° 38' west, while its elevation above sea level is 6,990 feet. The surrounding country is level.



and there are no forests or large bodies of water near. The meteorological record has several breaks in it previous to 1903, but during the past five years there is not a month missing. Wherever the mean temperature for a month is missing the record has been supplemented by applying the departure from the normal at surrounding stations during those months to the normal for that month at Potts. This generally gives a close approximation to the actual conditions. This plan has not been utilized in the case of the precipitation data, since the amount thus obtained, especially during the summer months, may depart very decidedly from the true amount.

The warmest month, July, has a normal temperature of  $70.6^{\circ}$ , and the coldest month, January, a normal temperature of  $24.7^{\circ}$ . The coldest year was that of 1905, when the annual mean temperature was  $42.2^{\circ}$ , while the warmest year was 1896, with a mean temperature of  $48.0^{\circ}$ , giving a range for the annual means of  $5.8^{\circ}$ . The warmest month on record is July, 1896, with a mean of  $80.8^{\circ}$ , while the coldest month is December, 1905, when the average temperature was only  $12.2^{\circ}$ , giving a difference of  $68.6^{\circ}$  between the means of the warmest and coldest months in fifteen years. The highest temperature ever observed was  $110^{\circ}$ , in July, 1896, while the lowest was  $32^{\circ}$  below zero, on January 29, 1902. This makes an extreme range in temperature of  $142^{\circ}$  during the length of the record. Freezing temperatures have been recorded in every calendar month, and the temperature goes above  $95^{\circ}$  quite often during the summer months.

The precipitation averages 7.49 inches annually, with the greatest normal monthly amount, 1.22 inches, in May, and the least, 0.17 inch, the following month. It is not considered likely that May is the wettest month, since the excessive rain during May of 1896 is sufficient to raise the fifteen-year normal very decidedly. The normal, as computed from the remaining fourteen years, is 0.85 inch, which is below that of March or April, and does not contrast so boldly with the normal of 0.17 inch for June. The wettest periods, with the amount falling during each, were as follows: One month, 6.31 inches, May, 1896; three consecutive months, 9.03 inches, March, April and May, 1896; four consecutive months, 10.03 inches, from April to July, inclusive, 1896; five months, 12.43 inches, from April to August, inclusive, of the same year, and six consecutive months, 12.82 inches, from March to August, also of the same year. The driest periods, with the amount of precipitation in each, were as follows: One month, no precipitation, in eight instances; three consecutive months, 0.05 inch, June, July and August, 1905; four consecutive months, 0.20 inch, June to September, inclusive, 1895, and July to October, inclusive, 1898; five months, 0.22 inch, June to October, inclusive, 1898; six consecutive months, 0.63 inch, July to December, inclusive, 1903. The wettest year was 1896, with 13.52 inches, and the driest was 1895, with 3.99 inches.

The observations were taken by Miss Bessie Potts from 1892 to May, 1905. The work was then taken up by Miss Mande Potts, and continued to January of this year, when it

was turned over to Miss Mamie Potts. Much credit is due these sisters for faithful and efficient service in keeping up the records, thus helping to establish the climate of the central portion of Nevada.

The following tables give all available records:

Monthly and Annual Precipitation.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1892	.....	1.37	0.47	0.05	1.25	0.47	0.05	0.01	0.18	0.21	0.60	1.60	.....
1893	0.12	0.54	1.48	1.30	0.61	0.00	0.40	.....	.....	.....	0.11	0.99	.....
1894	1.05	1.89	.....	1.14	0.79	.....	3.10	0.42	0.14	0.05	0.00	0.59	.....
1895	0.95	1.04	0.10	0.09	0.38	0.00	0.01	0.19	T	0.19	0.79	0.25	3.99
1896	0.35	0.09	0.39	2.33	6.31	0.07	1.32	2.40	0.04	0.02	0.10	0.10	13.52
1897	1.11	1.82	1.70	0.16	1.31	0.05	.....	.....	.....	.....	0.42	0.22	.....
1898	1.09	0.12	0.83	0.79	1.36	0.02	0.01	0.13	0.06	T	0.88	.....	.....
1899	0.46	0.69	0.58	0.06	0.62	0.72	0.05	0.23	T	0.55	0.13	1.31	5.40
1900	0.20	0.08	0.31	2.53	0.74	0.06	0.61	T	0.09	0.07	0.05	0.08	4.82
1901	0.56	0.35	0.56	0.06	0.43	0.05	0.76	2.88	0.75	0.61	.....	.....	.....
1902	0.54	0.57	2.62	0.15	0.10	0.00	.....	0.06	0.01	0.15	1.74	0.27	.....
1903	0.84	0.38	0.92	0.90	1.30	0.55	0.00	0.20	0.25	0.10	T	0.08	5.52
1904	0.08	0.37	0.30	0.72	1.77	0.60	T	1.96	1.28	1.75	0.00	0.37	8.60
1905	0.29	1.15	2.35	2.35	0.85	0.05	T	T	0.95	0.00	1.65	0.45	10.09
1906	0.81	0.45	1.25	0.50	0.45	0.30	2.22	0.10	0.15	0.15	0.15	0.34	6.87
Means	0.60	0.73	0.99	0.88	1.22	0.17	0.66	0.66	0.39	0.30	0.47	0.51	7.49

Monthly and Annual Mean Temperatures.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1892	25 <sup>1</sup>	24	31	50	59	63 <sup>1</sup>	69 <sup>1</sup>	69 <sup>1</sup>	60 <sup>1</sup>	52	45	29	48
1893	38	33	27	35	45	58	58	68 <sup>1</sup>	51 <sup>1</sup>	43 <sup>1</sup>	31 <sup>1</sup>	27 <sup>1</sup>	43
1894	16	17	32 <sup>1</sup>	48	59	57 <sup>1</sup>	76	71	52	45	31 <sup>1</sup>	15	43
1895	19	24	34	50	61	69	80	75	66	46	28	23	48
1896	31	30	34	41	52	76	81	69 <sup>1</sup>	59	46	33	34	49
1897	25	24	25	47	64	69	69 <sup>1</sup>	66 <sup>1</sup>	55 <sup>1</sup>	42 <sup>1</sup>	37	27	46
1898	17	33	30	52	53	73	80	80	58	46	36	21 <sup>1</sup>	48
1899	21	20	34	46	46	67	77	63	57	44	34	19	44
1900	35	34	41	43	58	70 <sup>1</sup>	68 <sup>1</sup>	60	51	44	39	29	48
1901	17	26	34	42	56	62 <sup>1</sup>	69	70	56	47	40 <sup>1</sup>	26 <sup>1</sup>	45
1902	25	38	33	50	52 <sup>1</sup>	67 <sup>1</sup>	72 <sup>1</sup>	67	56	45	34	30	47
1903	28	13	32	39	48	62	63	64	54	46	39	28	43
1904	21	30	36	40	50	60	64	65	55	42	37	24	44
1905	30	28	36	44	47	58	66	65	53	39	29	12	42
1906	23	33	34	41	48	56	67	65	53	42	29	29	43
Means	24.7	27.1	32.9	44.5	53.2	64.5	70.6	67.8	55.7	44.6	34.8	24.9	45.4

<sup>1</sup> Extreme values in *italic* type.

<sup>1</sup> No record; mean obtained by applying the departure from the normal at surrounding stations to the normal for the month at Potts.

Temperature Extremes, 1892 to 1906, Inclusive.

Month.	Maximum.	Year.	Day.	Minimum.	Year.	Day.
January	62	1900	3	-32	1902	29
February	65	1901	16	-25	1899	.....
March	69	1904	17	-8	1903	18
April	86	1895	.....	0	1901	4
May	98	1896	.....	10	1899	3
June	105	1892	.....	21	1906	7
July	110	1896	.....	26	1903	7
August	108	1895	.....	28	1903	25
September	100	1903	1	10	1895	.....
October	94	1894	.....	5	1906	23
November	70	1900	12	-17	1895	.....
December	65	1897	.....	-21	1905	23



## CLIMATOLOGICAL DATA FOR NOVEMBER, 1907.

Stations.	Counties.	Elevation (feet)	Length of record (years)	Temperature (degrees Fahrenheit)						Precipitation (inches)										Observer.
				Mean.	Departure from the normal	Highest	Date.	Lowest	Date.	Greatest daily range	Total.	Departure from the normal	Greatest in 24 hours	Total should be accumulated	Number rainy days	Number clear days	Number cloudy days	Prevalence of clouds		
Northern Section.																				
Aura	Elko		0																	E. J. Clark
Battle Mountain	Lander	4,511	37	39.0	+0.3	57	3	26	27	23	0.00	-0.50	0.00	0.0	0	22	2	6		Agent So. Pacific Co.
Beowawe-3	Eureka	1,695	37	44.1	+7.5	61	11	20	12	39	0.20	-0.36	0.20	2.0	1	22	0	8		Agent So. Pacific Co.
Carlin-3	Elko	1,897	37	32.7	+0.1	68	11	10	15	48	T	-0.53	T	T	0	28	0	2	w	Agent So. Pacific Co.
Clover Valley†	Elko	6,000	8	37.0		64	8	10	19	43	0.27		0.15	1.2	2	19	8	3		A. H. Wiseman
Elko-3	Elko	5,063	37																	Agent So. Pacific Co.
Fenelon	Elko	6,128	20								1.00			10.0	1	20	8	2	w	Agent So. Pacific Co.
Golconda	Humboldt	4,392	29	40.2	-0.8	60	25	17	17	44	0.20	-0.14	0.20	2.0	1	24	1	5		Agent So. Pacific Co.
Halleck-3	Elko	5,229	35	38.2	+7.4	65	7	10	19	50	0.21	-0.39	0.10	2.1	3	22	4	4		Agent So. Pacific Co.
Humboldt	Humboldt	4,236	36	49.0	+10.0	74	8	30	3	38	0.05	-0.35	0.05	0.5	1	24	5	1	s	Agent So. Pacific Co.
Mill City-3	Humboldt	4,225	19	38.7	-1.0	64	1	18	16	39	0.60	+0.38	0.60	6.0	1	14	11	5	sw	Agent So. Pacific Co.
Palisade	Elko	4,821	26																	Agent So. Pacific Co.
Quinn River Ranch‡	Humboldt	4,850	6	37.4		70	8	12	13	54	0.44		0.23	0.0	3	21	6	3	w	F. M. Payne
San Jacinto	Elko	3	35.0			63	5	10	6	50	0.50		0.15	5.7	4	23	3	4		Moses Jones
Squaw Valley**-2	Elko	5,100	1	34.2		68	1	2	15	58	0.00		0.00	0.0	0	17	2	11	sw	Chas. D. Dorsey
Tecoma	Elko	4,812	30	38.8	+6.1	70	13	14	30	45	T	-0.27	T	T	0	20	0	10	s	Agent So. Pacific Co.
Wells	Elko	5,623	36																	Agent So. Pacific Co.
Winnemucca	Humboldt	4,432	29	38.8	+1.3	67	1	16	16	43	0.48	-0.26	0.38	4.0	3	15	5	10	NE	U. S. Weather Bureau
Means				38.7							0.28			2.4	2	21	4	5	w	
Eastern Section.																				
Hamilton	White Pine	7,977	1																	Geo. Allen
McGill	White Pine		0																	W. G. Perkins
Means																				
Central Section.																				
Austin	Lander	6,594	19	38.2	-0.5	65	3	14	19	35	1.00	+0.37	0.50	10.0	3	15	10	5	w	F. H. Triplett
Eureka	Eureka	6,500	5	38.4		64	6	8	19	39	0.70		0.30	10.0	4	17	6	7	s	Clay Simms
Millett	Nye	0	36.0			65	1	4	19	49	0.00		0.00	0.0	0	22	6	2	N	Fred J. Jones
Potts	Nye	6,990	15	32.5	-2.3	57	5	6	19	39	0.20	-0.27	0.15	3.5	2	13	8	9	N	Miss Mamie Potts
Means				36.3							0.48			5.9	2	17	7	6	N	
Western Section.																				
Carson Dam††b	Churchill	4,032	1	41.2		69	12	20	29	42	0.26		0.26	0.0	1	22	2	6	E	J. M. Heizer
Fallon	Churchill	3,965	3	39.8		76	2	18	30	46	0.21		0.17	0.0	3	24	3	3	NW	U. S. Reclamation Serv.
Fernley ††	Lyon	0	42.4	+2.6		68	1	20	19	39	T	-0.34	T	T	0	21	3	6		U. S. Reclamation Serv.
Gardnerville	Douglas	4,830	9																	Lawrence Ezell
Hazen-2	Churchill	4,050	1																	U. S. Reclamation Serv.
Leetville‡	Churchill	4,020	1	40.4		67	1	18	16	42	0.34		0.34	0.0	1	25	4	1	w	U. S. Reclamation Serv.
Lewers' Ranch†	Washoe	5,500	20	42.5	-1.1	65	1	18	19	38	T	-3.30	T	T	0	22	4	4		Ross Lewers
Reno	Washoe	4,532	37	42.3	+1.3	66	1	22	30	37	0.07	1.02	0.07	0.1	2	18	9	3	w	Central Office
Soda Lake‡a	Churchill	4,005	1	42.0		67	2	20	19	36	0.35		0.35	0.0	1	21	3	6	NE	U. S. Reclamation Serv.
Wabuska	Lyon	4,347	5	38.4		70	8	10	27	50	0.02		0.02	0.2	1	21	8	1	NW	J. G. Young
Means				41.1							0.16			T	1	22	4	4	NW	
Southern Section.																				
Columbia	Esmeralda	5,750	1	40.4		62	5	14	18	36	0.00		0.00	0.0	0	21	8	1	N	Will W. Thompson
Geyser	Lincoln	3	35.1			62	4	1	30	53	0.10		0.10	1.0	1	15	10	5	S	J. F. Wambolt
Jean	Lincoln	2,074	0	57.9		74	3	38	18	22	0.00		0.00	0.0	0	23	5	2	N	Agent Salt Lake Route
Las Vegas	Lincoln	0	52.6			78	1	22	25	50	0.00		0.00	0.0	0	15	13	2	E	Agent Salt Lake Route
Logan	Lincoln	1,700	1	53.9		78	1	28	20	42	0.00		0.00	0.0	0	18	6	6	N	Chas. Arney
McAfee's Ranch*	Esmeralda	4,835	4	33.4		64	5	-1	29	57	0.00		0.00	0.0	0	19	3	8	N	G. A. McAfee
Mina	Esmeralda	4,600	1	37.8		58	25	21	10	32	0.00		0.00	0.0	0	18	7	5	sw	Agent So. Pacific Co.
Palmetto	Esmeralda	6,780	18	37.4	-1.5	60	2	8	19	43	T	-0.72	T	T	0	21	6	3	w	Wm. Oothout, Jr.
Tonopah	Nye	6,090	1	42.2	+3.7	59	5	20	19	23	0.01	-0.90	0.01	0.3	1	18	11	1	w	U. S. Weather Bureau
Means				43.4							0.01			0.1	0	19	8	3	N	
State Means and Extremes.				40.2	+0.9	78	1	-1	29	58	0.21	-0.55	0.60	1.7	1	20	5	5	w	

REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station indicates the number of days missing from the record: for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

†Postoffice—Wells. †Postoffice—Franktown. ‡Postoffice—Amos. \*Postoffice—Dyer †Postoffice—Fallon. \*\*Postoffice—Golconda. ††Postoffice—Hazen. ††Pos. office—Wadsworth.

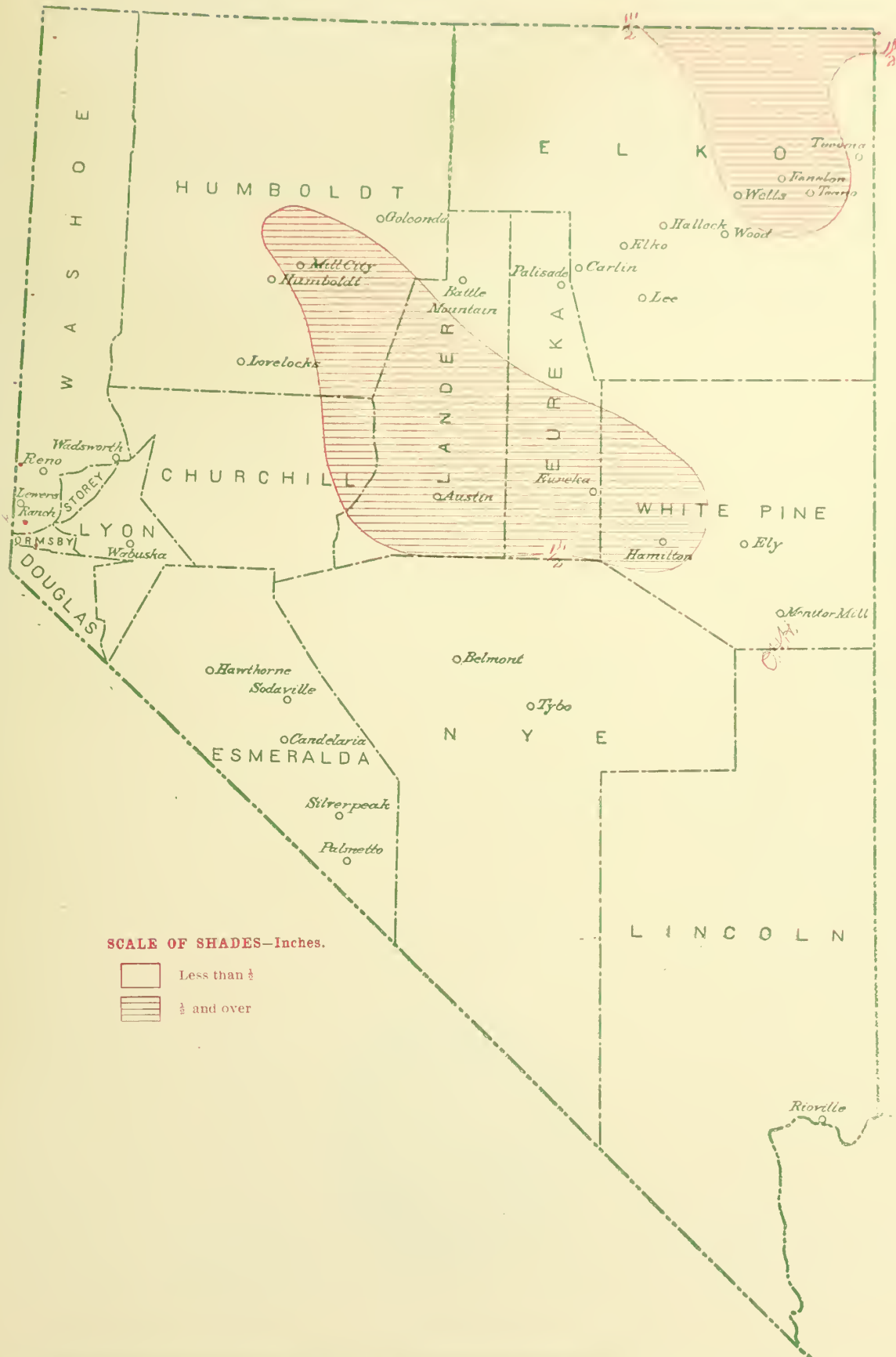


## DAILY MAXIMUM AND MINIMUM TEMPERATURES FOR NOVEMBER, 1907.

Stations.	Day of Month.																															Monthly Mean.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Austin.....	Max. 59	54	65	53	58	56	53	54	55	54	53	54	50	44	40	43	40	26	38	35	35	42	38	44	47	50	47	46	52	53	47.9	
Battle Mountain.....	Min. 35	34	30	31	33	39	36	30	32	30	32	30	30	30	24	20	21	20	11	22	25	18	26	25	29	33	28	28	32	34	28.5	
Carson Dam.....	Max. 56	54	57	54	48	48	46	44	50	52	54	50	50	48	50	48	46	48	50	42	38	40	42	44	46	46	46	41	42	40	17.3	
Clover Valley.....	Min. 34	34	34	32	30	32	32	30	32	34	32	34	34	34	34	34	30	32	30	30	28	28	28	28	28	28	26	26	28	26	30.6	
Columbia.....	Max. 64	61	56	58	61	61	62	59	63	63	69	63	69	63	56	49	47	41	45	45	45	45	50	54	53	56	51	54	51	51	51.9	
Eureka.....	Min. 30	30	30	30	31	35	36	32	32	28	27	29	34	25	21	34	29	22	22	22	22	22	25	27	25	25	22	22	20	21	27.6	
Fallon.....	Max. 63	58	56	58	55	60	57	64	63	58	57	59	56	46	41	36	37	31	36	42	46	41	44	52	56	56	57	58	56	52	51.7	
Fernley.....	Min. 23	29	25	20	20	29	31	21	21	22	20	17	17	24	27	12	25	25	10	20	24	11	28	24	25	30	29	27	18	16	22.3	
Gardnerville.....	Max. 60	60	56	58	62	59	59	53	57	58	58	61	56	52	45	50	40	42	46	40	42	47	41	45	57	60	58	54	56	50	53.1	
Geyser.....	Min. 34	32	33	31	31	38	39	38	35	32	28	29	35	35	28	28	25	28	19	22	23	19	22	25	22	27	22	26	26	26	27.8	
Golconda.....	Max. 60	62	58	58	61	60	60	61	57	58	61	59	40	47	38	39	47	37	33	41	43	30	43	53	53	53	51	58	57	52	52.3	
Hamilton.....	Min. 30	30	27	26	26	26	25	27	25	23	25	25	25	24	16	25	21	8	23	27	11	23	16	26	30	26	21	25	26	24	24.5	
Humboldt.....	Max. 66	76	61	58	60	62	62	58	63	60	59	60	52	52	52	56	52	41	48	43	48	54	56	56	56	56	56	56	56	56	55.2	
Jean.....	Min. 22	30	30	26	26	32	32	27	26	26	22	21	23	22	19	34	26	20	24	24	22	22	24	22	22	23	19	21	19	18	21.5	
Las Vegas.....	Max. 61	59	62	63	62	63	62	62	65	62	60	67	52	51	48	52	45	42	48	45	51	46	52	54	57	53	57	55	55	55	56.5	
Leeville.....	Min. 67	61	58	59	63	62	63	61	60	62	59	60	65	54	53	53	50	42	46	45	48	43	50	56	57	55	53	57	58	54	55.8	
Lewers' Ranch.....	Max. 29	32	29	27	25	34	36	26	27	27	23	22	23	23	18	24	26	19	25	26	21	24	25	25	21	21	19	22	19	18	25.1	
Logan.....	Min. 65	63	63	62	62	62	62	60	57	64	62	61	63	52	54	55	49	43	41	48	52	51	48	52	61	63	60	58	61	60	56.6	
McAfee's Ranch.....	Max. 30	36	30	29	29	32	32	28	29	29	27	27	27	29	29	25	25	18	22	22	24	25	28	25	28	25	25	25	26	35	28.4	
McGill.....	Min. 78	77	77	77	77	77	77	72	72	72	72	69	69	65	60	63	61	60	62	61	64	65	65	71	70	66	66	73	70	69.7		
Millet.....	Max. 46	42	42	44	43	40	43	56	60	61	60	64	37	47	45	47	35	43	48	47	49	40	39	51	56	58	58	57	56	56	55.7	
Mina.....	Min. 15	16	16	12	13	25	30	22	13	12	8	17	19	17	15	12	13	2	7	13	1	6	3	3	17	3	4	1	—	0	11.1	
Palmetto.....	Max. 65	63	63	62	64	63	63	62	62	62	60	63	59	52	48	48	43	32	43	45	43	42	47	50	52	52	55	57	55	53	54.4	
Palmetto.....	Min. 22	24	21	20	20	29	29	24	26	25	24	23	23	21	24	26	22	21	31	27	29	29	24	27	27	33	34	32	30	31	33	17.5
Potts.....	Max. 52	51	54	57	56	55	55	54	55	54	52	43	44	44	39	30	41	35	22	22	22	14	13	13	21	21	17	18	20	15	54.5	
Quinn River Ranch.....	Min. 25	27	24	25	20	30	30	28	28	25	24	23	22	24	15	16	9	25	18	6	9	22	8	15	14	17	29	14	15	16	17.6	
Reno.....	Max. 54	56	60	65	59	65	70	68	65	63	62	60	53	53	50	42	36	37	50	39	45	50	57	54	56	54	50	56	51	56	54.6	
San Jacinto.....	Min. 22	34	22	13	15	25	25	16	16	16	13	12	12	26	19	21	23	15	16	16	22	22	22	22	24	23	18	21	19	14	20.3	
Soda Lake.....	Max. 66	68	68	67	68	64	64	60	58	58	62	53	50	56	56	50	48	46	54	45	45	52	52	58	59	58	59	60	58	58	56.5	
Squaw Valley.....	Min. 31	33	32	30	30	38	34	28	29	28	26	28	26	27	24	31	26	23	24	26	27	23	28	25	25	25	20	24	22	22	28.1	
Teconia.....	Max. 60	58	56	52	63	60	58	62	60	51	50	54	52	50	48	45	43	40	42	40	42	48	49	48	50	48	47	50	50	50	50.9	
Tonopah.....	Min. 26	24	23	11	15	10	14	20	19	17	12	10	12	12	21	26	24	25	20	25	10	14	20	21	18	19	18	15	21	21	19.0	
Wabaska.....	Max. 61	67	61	58	63	63	63	59	60	62	60	61	57	52	51	49	40	45	44	47	45	50	57	54	56	54	56	53	53	53	55.2	
Winnemucca.....	Min. 32	34	36	36	36	36	36	31	30	33	31	30	28	35	23	34	27	20	25	28	22	26	26	26	25	25	22	23	23	24	28.7	
	Max. 68	68	66	67	68	64	64	60	58	58	62	53	50	56	54	50	48	46	46	46	34	50	34	50	32	50	20	20	34	62	52.4	
	Min. 31	28	18	10	11	29	32	22	10	10	12	9	11	26	2	58	26	14	26	6	20	8	10	10	10	12	10	10	6	4	15.9	
	Max. 56	60	40	47	50	49	52	53	52	50	57	60	70	65	70	58	60	56	52	59	60	57	55	60	60	60	60	60	60	60	54.8	
	Min. 25	23	19	22	23	25	25	23	24	29	30	29	25	23	29	29	32	27	25	20	18	16	22	18	20	17	15	20	17	14	22.9	
	Max. 39	41	40	36	42	45	41	40	40	46	56	57	53	46	46	36	34	43	36	38	39	42	49	53	57	51	48	54	54	54	49.9	
	Min. 67	66	66	66	63	61	63	64	70	60	62	59	54	53	52	50	51	50	51	50	47	48	55	51	57	60	53	55	56	56	57.0	
	Max. 24	23	26	27	26	31	27	20	20	18	18	14	14	23	16	14	32	27	21	25	14	18	15	15	15	15	13	12	10	13	19.8	
	Min. 67	55	57	61	63	65	61	61	63	61	59	60	51	51	60	53	36	41	42	41	43	44	46	54	57	54	55	55	55	57	54.3	
	Max. 24	32	31	20	21	29	31	27	20	19	21	17	24	23	17	16	30	19	16	19	25	19	26	32	27	27	23	23	20	19	23.2	



TOTAL PRECIPITATION FOR NOVEMBER, 1907





DAILY PRECIPITATION FOR NOVEMBER, 1907.

Stations.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Northern Section.																																	
Aurora																																	0.00
Battle Mountain																																	0.20
Beowawe																																	T
Carlin																																	0.27
Clover Valley																																	
Elko																																	1.00
Fenelon																	*	1.00														0.20	
Golconda																	0.20															0.21	
Halleck																	0.10															0.05	
Humboldt																	0.05															0.60	
Mill City																	0.60															0.11	
Paradise Valley																	0.10															0.14	
Quinn River Ranch																	0.10															0.50	
San Jacinto																	0.10															0.00	
Squaw Valley																	0.10															T	
Tecoma																	T															T	
Wells																	T															T	
Winnemucca																	0.05	0.33		T	0.10	T										0.48	
Eastern Section.																																	
Hamilton																																	
McGill																																	
Central Section.																																	
Austin																																	1.00
Eureka																																	0.70
Millert																																	0.00
Potts																																	0.20
Western Section.																																	
Carson Dam																																	0.26
Fallon																	*	0.17		0.04												0.21	
Fernley																	T															T	
Gardnerville																																	
Hazen																																	
Leetville																	0.34																
Lewers' Ranch																																	T
Reno																	T																0.34
Soda Lake																	0.06	0.01															0.07
Wabuska																	0.35																0.35
Southern Section.																																	
Columbia																																	0.02
Geyser																																	0.00
Jean																	0.10																0.10
Las Vegas																																	0.00
Logan																																	0.00
McAfee's Ranch																																	0.00
Mina																																	0.00
Palmetto																																	0.00
Tonopah																																	0.01

T indicates trace. \* Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, - J. G. McCARTHY, SUPT



1908



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR DECEMBER, 1907.

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NEVADA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

IN COOPERATION WITH THE

NEVADA STATE WEATHER SERVICE

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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UNDER DIRECTION OF

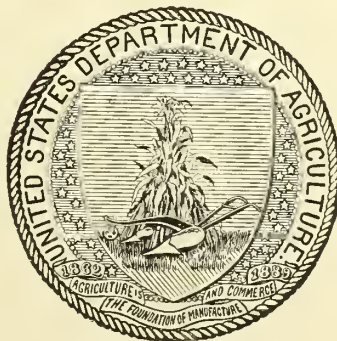
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

HARRY O. GEREN

SECTION DIRECTOR

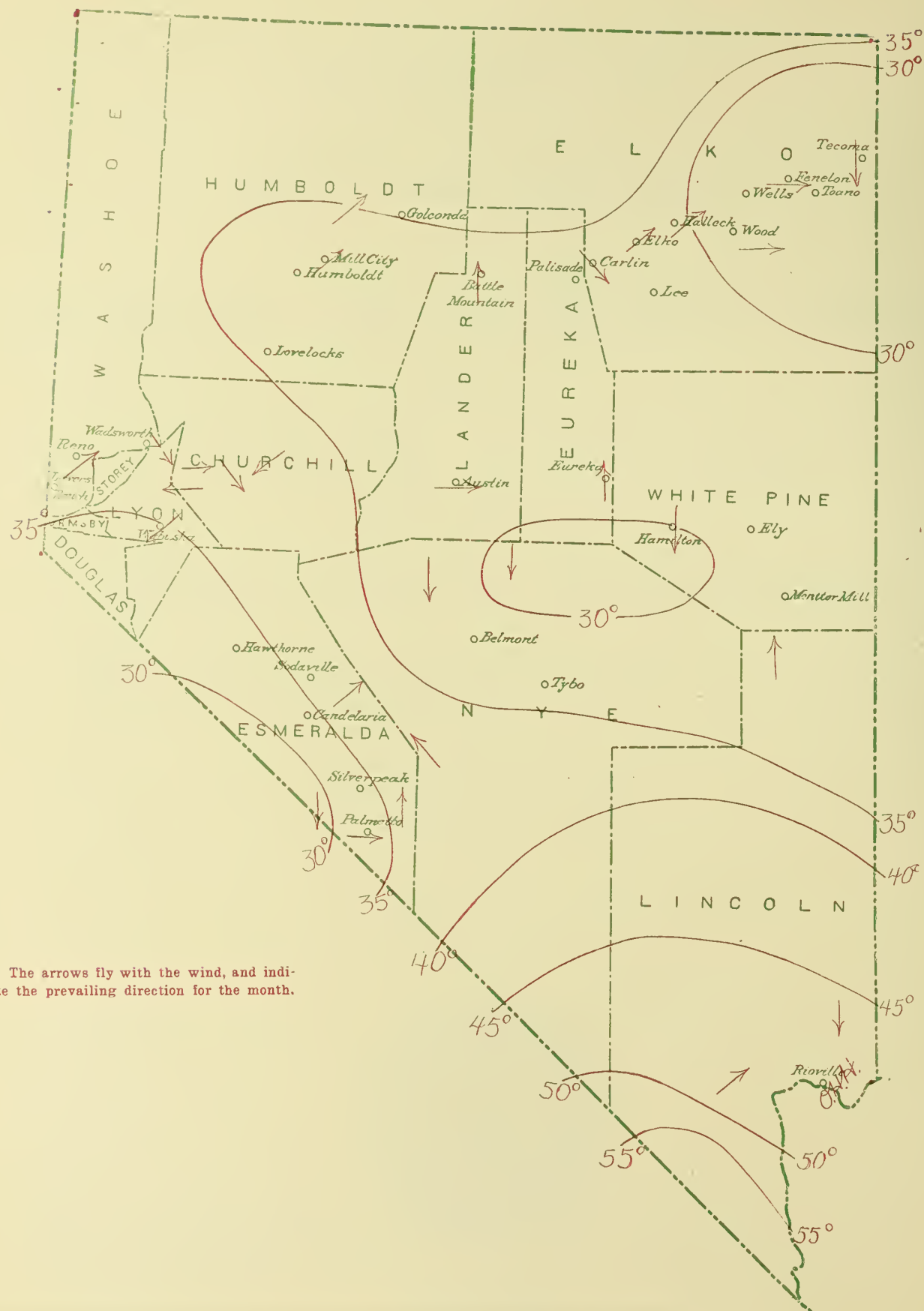


CARSON CITY, NEVADA:

January 31, 1908.



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTION FOR DECEMBER, 1907.



The arrows fly with the wind, and indicate the prevailing direction for the month.



# U. S. DEPARTMENT OF AGRICULTURE, CLIMATOLOGICAL SERVICE

OF THE  
WEATHER BUREAU.  
CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,  
HARRY O. GEREN, Section Director.

VOL. XXI. RENO, NEVADA, DECEMBER, 1907. No. 12.

## GENERAL SUMMARY.

The month was the warmest December on record. The next warmest was that of 1890 with an average temperature of  $0.5^{\circ}$  less. The daily mean temperatures were generally above the normal during most of the month, the high monthly mean being due rather to continued warm weather than to one or more especially warm periods. The highest temperatures, as a rule, were recorded during the first four days of the month. The lowest temperatures occurred on the 29th over the central and western sections, while over the remainder of the State no particular date seemed to be favored. While all stations, except Jean, in Lincoln County, experienced minimum temperatures below the freezing point, there were only five stations reporting temperatures below zero.

The precipitation was in excess of the normal. It occurred mostly in the form of light showers at frequent intervals and well distributed thruout the month, especially over the northern half of the State. Over the southern half the total precipitation was light, occurring from the 6th to the 10th, inclusive, and on the 19th, 20th, and 28th. The average snowfall for the State was slightly greater than during December, 1906, and materially exceeds the average for the past five years. In most cases it disappeared quickly under the influence of the unusually warm weather.

### Temperature.

The mean temperature for the State was  $35.6^{\circ}$ , which is  $4.6^{\circ}$  higher than the normal for the month, and  $2.1^{\circ}$  higher than the mean for the corresponding month of 1906. The highest monthly mean temperature was  $57.0^{\circ}$  at Jean, Lincoln County. The lowest monthly mean temperature was  $26.8^{\circ}$  at Tecoma, Elko County. The highest temperature was  $78^{\circ}$  at Jean on the 3d and 5th, and the lowest was  $11^{\circ}$  below zero at Potts, Nye County, on the 29th. The greatest daily range was  $62^{\circ}$  at Carlin, Elko County, on the 9th.

### Precipitation.

The average amount for the State was 1.47 inch, which is 0.37 inch more than the normal for the month, and 0.44 inch less than the average for the corresponding month of 1906. The greatest monthly amount was 6.83 inches at Lewers' Ranch, Washoe County, while at Jean and Las Vegas, in

Lincoln County, and Mina, in Esmeralda County, there was no precipitation at all. The greatest amount recorded in twenty four hours was 2.70 inches at Lewers' Ranch on the 26th. The average number of days with 0.01 inch or more of precipitation was 5.

### Wind.

The prevailing direction was southwest. The average hourly velocity at Reno was 5.6 miles; at Tonopah it was 9.6 miles, and at Winnemucca it was 8.3 miles. The maximum velocity for a period of five minutes at Reno was at the rate of 18 miles per hour, southwest, on the 4th; at Tonopah it was 43 miles per hour, northwest, on the 11th, and at Winnemucca it was 47 miles per hour, southwest, on the 13th.

### Sunshine and Cloudiness.

The average number of clear days was 10, partly cloudy days 10, and cloudy days 11.

## COMPARATIVE STATE DATA FOR DECEMBER.

Year.	Temperature.			Average precipitation.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1889 .....	34.4	70	-20	4.09	20	6	6	19	s
1890 .....	35.1	73	-33	1.00	6	10	11	10	sw
1891 .....	26.3	66	0	2.75	10	8	12	11	s
1892 .....	30.4	63	-23	1.23	5	10	13	8	s
1893 .....	34.3	72	-15	0.69	3	10	12	9	s
1894 .....	27.6	83	-12	2.59	9	6	12	13	sw
1895 .....	28.0	78	-34	0.42	4	12	9	10	s
1896 .....	34.6	73	-10	0.40	2	14	9	8	s
1897 .....	29.1	69	-14	0.31	4	13	7	11	w
1898 .....	25.3	70	-15	0.48	3	16	7	8	n
1899 .....	28.4	68	-25	1.15	4	14	7	10	ne
1900 .....	33.1	71	-12	0.19	1	14	6	11	sw
1901 .....	32.5	78	-19	0.69	3	17	7	7	sw
1902 .....	33.7	78	-2	0.35	2	13	7	11	sw
1903 .....	30.4	71	-9	0.14	1	20	6	5	n
1904 .....	33.3	76	-23	0.51	1	15	9	7	n
1905 .....	22.5	68	-21	0.60	3	15	7	9	sw
1906 .....	33.5	74	-21	1.91	6	8	10	13	s
1907 .....	35.6	78	-11	1.47	5	10	10	11	sw
Entire period .....	31.0	83	-34	1.10	5	12	9	10	sw

## MISCELLANEOUS PHENOMENA.

*Chinook Winds*—Austin, 12th; Reno, 4th.

*Fog*—Beowawe, 6th; Hamilton, 8th; Millett, 16th; Reno, 8th; Wabuska, 17th.

*Hail*—Columbia, 29th; Fernley, 19th.

*Halos, Lunar*—Eureka, 14th; Reno, 14th, 21st, 22d, 27th; Tonopah, 14th, 16th.

*High Winds*—Austin, 13th, 19th, 26th; Beowawe, 5th; Clover Valley, 11th, 23d; Columbia, 4th, 20th, 30th; Eureka, 25th, 30th; Fallon, 4th, 7th, 12th, 25th; Hamilton, 11th, 12th, 13th, 14th, 20th, 28th, 29th; Las Vegas, 11th, 20th, 21st; Millett, 30th; Palmetto, 4th, 6th, 10th, 11th, 20th, 27th, 29th; Potts, 4th, 6th, 13th, 26th; Reno, 4th, 6th, 10th, 13th, 25th, 30th; Tecoma, 26th; Tonopah, 11th; Winnemucca, 13th.

*Sandstorms*—Las Vegas, 11th.

*Sleet*—San Jacinto, 10th, 13th, 25th; Reno, 19th.



### SNOWFALL IN THE MOUNTAINS.

The amount of snowfall this season is generally about equal to, or less than, the average amount. This is true in practically all districts. The amount, as compared with that at the corresponding date of last year, is much less, there being only a few stations which report it to be as great. Last year, however, the fall of snow was unusually large. A considerable proportion of the precipitation has been in the form of rain. This, together with the fact that the temperature has generally been above the normal, has prevented the accumulation of very large amounts. In the Humboldt Basin the snow averages about two feet deep near the summits of the mountains, and is about the same depth in the Walker and Reese drainage areas. In the Truckee Basin it is about five feet deep near the mountain tops.

It is a little too early to form a reasonably reliable estimate of the supply of water for the coming season.

### CORRESPONDENTS' REMARKS.

#### Humboldt River Drainage.

**Beowawe**—The precipitation has been more in the form of rain than snow. There is not so much snow on the ground as there was last year at the same time. J. M. HIGGINS.

**Charleston**—The amount of snowfall to date is quite up to the average, but is not as heavy as it was last winter. Judging from the present amount, the water-flow will not be as large as it was last season. CHAS. E. PEARSON.

**Halleck**—The amount of snow is forty per cent less than the amount to the same date of last year. The season is late and most of that which has fallen has melted. I believe that the flow of water will be nearly as much as it was last season. A. H. CURTIS.

**Paradise Valley**—There is very little difference between the amount of snow this year and what it was last year. The water-flow will be about the same. J. D. BRADSHAW.

**Rebel Creek**—The amount of snow so far this season is about the same as it was last year at the same date. From present indications, the water-flow should be about the same. R. McLERAN.

**Tuscarora**—The autumn has been dry, but the last two weeks have been rather stormy. It is too early to judge as to the amount of the water supply during the coming season. W. I. PLUMB.

**Winnemucca**—The snow is from twenty to thirty feet deep in the gulches, but is about two feet deep on the level near the summits of the mountains. The prospects are good for an abundant flow of water during the coming season. U. S. WEATHER BUREAU OFFICE.

#### Truckee River Drainage.

**Donner**—The snowfall so far this season is only about one-half as much as last year. It is likely that the supply of water will be less. W. O. BLINN.

**Glenbrook**—So far this season the amount of snowfall is less than last year and less than the average to this date. A. C. McCLEARY.

**Hobart Mills**—The amount of snow is five inches less than at the same time last year. It is, however, greater than the usual amount. S. E. PATTERSON.

**Tahoe**—I think that the flow of water this year is likely to be less than last year when there was an extraordinary amount. The snowfall in the mountains at this time is one foot less. A. J. ROTHER.

**Truckee**—The amount of snow is less than it was last year at the same date; it is also less than the usual amount.

M. S. RUTHERFORD.

**Wadsworth**—Up to the present time there has not been enough snow to measure in this vicinity.

MRS. A. J. RANKIN.

#### Carson River Drainage.

**Dayton**—The season's snowfall is much less than it was at the corresponding date last year. The amount of water is likely to be less.

THOS. P. MACK.

**Woodfords**—It is too early to estimate the water-flow for the coming season. The amount of snowfall is about eighty per cent as much as last season.

MRS. MARY MERRILL.

#### Walker River Drainage.

**Bridgeport**—The amount of snow is less than the average and is about two-thirds as much as last year. There has been considerable rain.

GEO. A. MONTROSE.

**Mason Valley**—There is nearly enough old snow left in the mountains to insure a fair water-flow during the coming season. The snowfall is about up to the average.

J. G. YOUNG.

**Sweetwater**—The snowfall so far is not nearly so large as it was last year.

W. H. ROACH.

**Topaz**—There has not been much snow. It is less than usual and much less than last season to the same date.

A. D. BIRD.

#### Reese River Drainage.

**Eureka**—I think that the snowfall is about the same as it was last year at the same date. The water-flow will probably be about the same.

CLAY SIMMS.

TABLE OF SNOWFALL.

Station.	County.	Compared with average.	On ground December 31st.	
			At station.	At or near summit of mountains.
			Inches.	Inches.
<i>Humboldt River Drainage:</i>				
Beowawe.....	Lander .....	Average	1	24
Carlin.....	Elko.....	Average	0	.....
Charleston.....	Elko.....	Average	5	10
Clover Valley .....	Elko.....	Average	0	.....
Halleck.....	Elko.....	Less .....	7	14
Lamoille.....	Elko.....	.....	.....	.....
Paradise Valley .....	Humboldt .....	Average	2	30
Rebel Creek .....	Humboldt .....	Average	1	24
Tuscarora.....	Elko.....	Average	6	18
Wells.....	Elko.....	.....	.....	.....
Winnemucca.....	Humboldt .....	Average	0	24
<i>Truckee River Drainage:</i>				
Boca, Cal.....	Nevada.....	.....	.....	.....
Donner, Cal.....	Nevada.....	Average	30	60
Floriston, Cal.....	Nevada.....	.....	.....	.....
Glenbrook.....	Douglas.....	Less .....	10	48
Hobart Mills, Cal.....	Nevada.....	More .....	36	72
Marmol.....	Washoe.....	.....	.....	.....
Tahoe, Cal.....	Placer.....	Average	15	36
Truckee, Cal.....	Nevada.....	Less .....	24	72
Wadsworth.....	Washoe.....	.....	0	.....
<i>Carson River Drainage:</i>				
Dayton.....	Lyon.....	Less .....	0	4
Markleeville, Cal.....	Alpine.....	.....	.....	.....
Woodfords, Cal.....	Alpine.....	Average	4	36
<i>Walker River Drainage:</i>				
Bodie, Cal.....	Mono.....	.....	.....	.....
Bridgeport, Cal.....	Mono.....	Less .....	1	84
Mason Valley.....	Lyon.....	Average	0	10
Pinegrove.....	Esmeralda.....	.....	.....	.....
Schurz.....	Esmeralda.....	.....	.....	.....
Smith.....	Lyon.....	Less .....	0	.....
Sweetwater.....	Esmeralda.....	Average	0	24
Topaz, Cal.....	Mono.....	Less .....	0	18
<i>Reese River Drainage:</i>				
Austin.....	Lander.....	Average	6	.....
Berlin.....	Nye.....	.....	.....	.....
Eureka.....	Eureka.....	Average	8	18
Galena.....	Lander.....	.....	.....	.....



## CLIMATOLOGICAL DATA FOR DECEMBER, 1907.

Stations.	Counties.	Elevation (feet).	Length of record (years).	Temperature (degrees Fahrenheit)							Precipitation (inches)					Sky				Prevailing direction of wind	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.			
Northern Section.																					
Battle Mountain .....	Lander	1,511	37	32.0	+0.9	46	11	18	30	16	2.05	+1.35	2.00	0.5	2	14	9	8	s	Agent So. Pacific Co.	
Beowawe-3 .....	Eureka	4,695	37	38.2	+8.4	56	1	20	3	30	.....	.....	.....	.....	.....	9	11	11	.....	Agent So. Pacific Co.	
Carlin-3 .....	Elko	1,897	37	34.2	+10.2	65	30	2	3	62	.....	.....	.....	.....	.....	22	0	9	sw	Agent So. Pacific Co.	
Clover Valley† .....	Elko	6,000	8	30.0	.....	62	2	1	19	19	4.19	.....	1.25	12.5	8	6	8	17	w	A. H. Wiseman	
Elko-3 .....	Elko	5,063	37	38.7	+11.7	55	27	20	19	25	.....	.....	.....	.....	.....	2	11	15	sw	Agent So. Pacific Co.	
Fenelon .....	Elko	6,128	20	.....	.....	.....	.....	.....	.....	.....	1.70	.....	0.70	10.5	7	3	10	18	w	Agent So. Pacific Co.	
Golconda a .....	Humboldt	4,392	29	36.3	+1.3	55	1	16	2	38	3.95	+3.00	1.75	7.0	6	14	8	9	.....	Agent So. Pacific Co.	
Halleek-3 .....	Elko	5,229	35	30.7	+6.1	68	6	7	19	58	3.46	+2.37	1.00	17.1	12	6	5	20	sw	Agent So. Pacific Co.	
Humboldt .....	Humboldt	4,236	36	32.2	+0.4	55	1	18	24	25	.....	.....	.....	.....	.....	5	0	26	.....	Agent So. Pacific Co.	
Mill City-3 .....	Humboldt	4,225	19	34.5	+3.8	56	4	17	2	34	2.05	+1.12	0.75	8.0	7	4	13	14	sw	Agent So. Pacific Co.	
Palisade .....	Eureka	4,821	26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Agent So. Pacific Co.	
Quinn River Ranch¶ n .....	Humboldt	4,850	6	34.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. M. Payne	
San Jacinto .....	Elko	.....	3	28.0	.....	53	8	5	19	46	1.77	.....	0.25	15.2	12	10	2	19	.....	Moses Jones	
Squaw Valley**-2 .....	Elko	5,100	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Chas. D. Dorsey	
Tecoma .....	Elko	4,812	30	26.8	+0.7	50	26	-1	15	36	0.30	-0.24	0.20	3.0	3	6	9	16	n	Agent So. Pacific Co.	
Wells .....	Elko	5,623	36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Agent So. Pacific Co.	
Winnemucca .....	Humboldt	4,432	29	35.0	+4.3	60	4	14	29	42	1.92	+0.93	0.58	6.2	12	3	9	19	sw	U. S. Weather Bureau	
Eastern Section.																					
Means .....	.....	.....	.....	33.0	.....	.....	.....	.....	.....	.....	2.41	.....	.....	8.9	8	8	7	16	sw	.....	
Hamilton .....	White Pine	7,977	1	.....	.....	.....	.....	.....	.....	.....	1.90	.....	0.80	19.0	6	.....	.....	.....	n	Geo. Allen	
McGill .....	White Pine	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. G. Perkins	
Central Section.																					
Means .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.90	.....	.....	19.0	6	.....	.....	.....	n	.....	
Austin .....	Lander	6,594	19	33.2	+2.3	63	4	10	29	29	2.62	+1.43	1.10	26.2	8	14	7	10	w	F. H. Triplett	
Eureka .....	Eureka	6,500	5	32.8	.....	59	1	4	29	35	2.45	.....	0.50	24.5	9	8	7	16	s	Clay Simms	
Millett .....	Nye	.....	0	31.1	.....	57	26	2	30	51	0.75	.....	0.60	7.5	3	11	11	9	n	Fred J. Jones	
Potts .....	Nye	6,990	15	28.1	+3.2	52	2	-11	29	40	0.53	+0.02	0.30	10.5	4	5	8	18	s	Miss Mamie Potts	
Western Section.																					
Means .....	.....	.....	.....	31.3	.....	.....	.....	.....	.....	.....	1.59	.....	.....	17.2	6	9	8	14	s	.....	
Carson Dam†† a .....	Churchill	4,032	1	36.8	.....	64	4	12	29	41	0.25	.....	0.15	T	2	11	14	6	e	J. M. Heizer	
Fallon a .....	Churchill	3,965	3	37.7	.....	72	24	15	2	46	0.48	.....	0.21	0.6	6	16	15	0	nw	U. S. Reclamation Serv.	
Fernley †† .....	Lyon	.....	0	38.1	+3.9	59	4	15	29	37	0.67	+0.13	0.27	T	4	13	7	11	nw	U. S. Reclamation Serv.	
Gardnerville .....	Douglas	4,830	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	William Dangberg	
Leetville ‖ .....	Churchill	4,020	1	36.6	.....	64	4	14	29	44	0.71	.....	0.34	T	3	16	6	9	w	U. S. Reclamation Serv.	
Lewers' Ranch‡ .....	Washoe	5,500	20	36.3	+1.9	59	3	14	29	36	6.83	+3.42	2.70	6.0	9	5	11	15	.....	Ross Lewers	
Reno .....	Washoe	4,532	37	37.4	+3.7	58	4	17	29	36	1.47	-0.20	0.47	2.4	9	8	12	11	sw	Central Office	
Soda Lake ‖ .....	Churchill	4,005	1	37.5	.....	65	4	16	29	44	0.61	.....	0.30	0.0	5	11	7	13	ne	U. S. Reclamation Serv.	
Wabuska .....	Lyon	4,347	5	34.9	.....	60	4	9	2	45	0.75	.....	0.30	0.0	3	14	12	5	ne	J. G. Young	
Southern Section.																					
Means .....	.....	.....	.....	36.9	.....	.....	.....	.....	.....	.....	1.47	.....	.....	1.1	5	12	10	9	nw	.....	
Columbia .....	Esmeralda	5,750	1	36.8	.....	63	26	15	14	34	0.20	.....	0.20	2.0	1	13	12	6	s	Will W. Thompson	
Geyser .....	Lincoln	.....	3	.....	.....	.....	.....	.....	.....	.....	0.70	.....	0.40	7.0	2	8	16	7	s	J. F. Wambolt	
Jean .....	Lincoln	2,074	0	57.0	.....	78	3	40	28	29	0.00	.....	0.00	0.0	0	19	0	12	.....	Agent Salt Lake Route	
Las Vegas .....	Lincoln	.....	0	46.6	.....	73	3	21	18	48	0.00	.....	0.00	0.0	0	19	0	12	sw	Agent Salt Lake Route	
Logan .....	Lincoln	1,700	1	46.4	.....	71	7	24	19	41	T	.....	T	0.0	0	13	13	5	n	Chas. Arney	
McAfee's Ranch* .....	Esmeralda	4,835	4	29.2	.....	66	26	-3	1	59	2.00	.....	1.50	T	2	9	15	7	s	G. A. McAfee	
Mina a .....	Esmeralda	4,600	1	37.6	.....	56	3	20	16	35	0.00	.....	0.00	0.0	0	3	27	1	sw	Agent So. Pacific Co.	
Palmetto .....	Esmeralda	6,780	18	33.2	+2.0	62	3	3	29	40	0.60	-0.42	0.30	3.0	3	18	5	8	w	Wm. Oothout, Jr.	
Tonopah .....	Nye	6,090	1	35.8	+5.7	55	1	18	29	20	0.21	-0.60	0.08	2.6	4	10	19	2	se	U. S. Weather Bureau	
Means .....	.....	.....	.....	40.3	.....	.....	.....	.....	.....	.....	0.41	.....	.....	1.6	1	12	12	7	s	.....	
State Means and Extremes.	.....	.....	.....	35.6	+4.6	78	3	-11	29	62	1.47	+0.37	2.70	6.2	5	10	10	11	sw	.....	

REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station indicates the number of days missing from the record: for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.






† Postoffice—Wells. † Postoffice—Franktown. † Postoffice—Amos. \* Postoffice—Dyer † Postoffice—Fallon. \*\* Postoffice—Golconda. †† Postoffice—Hazen. †† Postoffice—Wadsworth.



DAILY MAXIMUM AND MINIMUM TEMPERATURES FOR DECEMBER, 1907.

Stations.	Day of Month.																															Monthly means.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Austin.....	Max. 52	50	53	63	52	45	44	43	42	45	42	44	42	34	32	30	34	30	35	34	42	44	42	45	42	44	43	32	26	32	33	41.0		
Battle Mountain.....	Min. 31	32	32	40	38	28	29	27	28	35	24	23	21	16	24	18	18	17	17	15	30	28	28	32	30	32	38	26	24	10	20	21	25.5	
Carson Dam.....	Max. 26	28	30	32	24	28	26	24	21	49	30	26	20	22	22	26	28	26	26	28	28	30	32	30	26	28	26	22	20	18	20	26.3		
Clover Valley.....	Max. 53	51	50	64	45	52	51	51	51	49	37	34	19	23	25	23	21	20	22	27	27	27	26	25	31	43	30	12	21	27	31	41.9		
Columbia.....	Min. 56	62	52	49	45	51	48	45	43	23	19	18	17	6	8	8	12	1	12	6	22	22	34	33	34	24	22	12	3	10	18.1			
Eureka.....	Max. 52	59	58	48	48	47	50	47	50	49	51	53	44	41	42	44	45	41	42	45	45	60	50	54	63	45	52	50	55	55	49.2			
Fallon.....	Min. 25	25	25	34	33	44	38	25	28	25	24	22	31	15	19	18	18	17	16	17	15	21	28	27	35	31	21	15	26	26	24.5			
Fernley.....	Max. 59	58	57	50	44	44	45	42	50	45	40	43	42	36	32	36	34	33	29	35	49	50	50	49	45	35	33	37	30	40	42.9			
Gardnerville.....	Min. 25	24	22	35	34	31	31	31	32	32	18	25	11	24	25	14	18	10	11	23	7	23	27	27	37	24	22	4	19	17	22.8			
Geyser.....	Max. 51	52	65	44	51	62	54	53	54	45	58	48	42	42	44	44	42	44	42	44	52	53	55	72	68	53	41	39	45	49	50.2			
Humboldt.....	Min. 17	15	18	38	28	26	30	27	28	28	32	30	33	18	23	25	24	24	19	19	20	20	21	26	31	44	30	15	22	21	25.2			
Hamilton.....	Max. 56	53	51	59	49	53	52	52	43	51	44	50	41	39	46	43	36	43	41	43	47	53	57	57	57	57	49	39	40	42	46	48.4		
Las Vegas.....	Min. 20	16	17	24	36	30	35	34	31	31	33	33	37	18	24	31	23	24	24	30	22	25	26	30	37	44	15	26	28	27.8				
Leetville.....	Max. 68	73	78	71	78	76	73	72	69	62	66	63	64	66	68	70	63	60	58	58	56	58	60	66	69	56	58	52	58	56	59	64.6		
Lewers' Ranch.....	Min. 49	46	49	50	61	62	59	53	54	50	53	52	52	53	51	54	50	49	46	43	42	49	48	45	48	43	44	40	41	50	50	49.5		
Logan.....	Max. 71	73	65	59	63	60	67	65	62	64	64	63	61	62	61	62	62	62	58	57	58	62	67	64	62	62	64	63	36	26	28	63.3		
McAfee's Ranch.....	Min. 30	29	25	35	32	35	37	32	33	33	44	50	54	42	39	44	39	36	41	41	43	49	54	42	52	59	51	41	38	44	47	48.1		
McGill.....	Max. 58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	
Millett.....	Min. 23	22	23	33	33	30	34	28	31	32	20	27	32	17	20	22	22	20	20	24	20	24	24	23	29	37	30	14	24	29	25.2			
Mina.....	Max. 70	68	58	55	61	71	66	66	55	63	60	60	60	60	51	56	60	58	56	55	58	58	59	58	60	64	66	57	68	60	60	60.9		
Palmetto.....	Min. 29	29	29	25	35	35	40	41	33	34	45	53	35	34	32	42	45	48	41	43	34	43	52	55	44	55	66	50	49	42	47	48	49.5	
Potts.....	Max. 56	55	54	55	53	47	51	54	51	46	53	56	56	44	42	45	48	41	43	34	43	52	55	44	55	44	55	66	50	49	42	47	48	49.5
Quinn River Ranch.....	Min. 14	13	13	18	30	19	32	20	20	20	25	17	25	5	15	18	6	11	4	15	-2	14	12	17	20	35	23	-11	3	15	15	15.3		
Reno.....	Max. 51	51	51	53	50	47	54	48	55	44	47	49	50	38	33	30	32	35	30	36	31	38	43	43	47	44	47	37	23	25	35	40.9		
San Jacinto.....	Min. 12	9	10	13	25	27	34	30	29	23	33	31	22	12	22	22	23	37	46	41	44	52	52	55	51	52	42	38	39	41	43	46.1		
Soda Lake.....	Max. 55	55	56	58	43	53	40	51	55	51	43	54	48	39	37	41	41	25	24	24	22	22	37	46	46	40	38	36	34	32	37	39.6		
Squaw Valley.....	Min. 23	20	20	28	35	30	38	28	31	32	28	32	35	19	23	25	28	25	24	24	22	22	37	46	46	40	38	36	34	32	37	39.6		
Tecoma.....	Max. 48	48	44	36	38	38	43	43	36	36	38	37	37	29	26	31	26	29	27	34	34	35	47	48	47	50	39	35	32	30	32	37.2		
Tonopah.....	Min. 15	14	8	4	16	26	27	46	49	42	31	24	21	11	-1	10	-1	13	13	11	17	17	27	26	37	35	19	21	16	2	2	16.3		
Wabuska.....	Max. 55	54	54	46	47	45	47	46	49	42	31	24	21	26	21	39	39	32	34	31	38	44	48	45	45	52	43	39	28	40	38	42.2		
Winnemucca.....	Min. 40	39	40	35	33	32	34	30	37	31	24	27	24	21	26	29	23	23	23	23	35	37	37	37	35	32	29	21	18	23	27	29.4		
	Max. 55	52	54	60	44	53	56	56	51	54	48	55	44	41	48	41	40	48	44	45	50	55	50	52	60	53	42	42	45	45	50	49.4		
	Min. 10	9	15	36	25	23	22	22	23	24	23	24	21	20	21	20	21	15	12	14	15	17	17	15	17	25	40	30	22	9	17	28	20.4	
	Max. 54	54	54	60	40	47	47	48	52	46	44	52	52	38	35	34	38	35	32	39	39	50	55	50	50	53	36	34	36	40	43	44.7		
	Min. 17	15	15	18	28	29	36	31	32	28	31	32	23	18	25	26	22	22	17	15	31	35	35	33	31	29	25	14	26	24	24	25.2		



	Less than $\frac{1}{2}$
	$\frac{1}{2}$ to 1
	1 to $1\frac{1}{2}$
	$1\frac{1}{2}$ to 2
	More than 2



## DAILY PRECIPITATION FOR DECEMBER, 1907.

Stations.	Day of Month.																															Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Section.																																
Battle Mountain																																
Beowawe																																
Carlin					0.06		0.70				0.46		0.64																			
Clover Valley					0.10	0.05			T	0.30		0.40	T		T																	
Elko						*	1.50					0.30			1.75															0.05		
Fenelon					0.05	0.25	0.25			0.25			0.50	0.15					0.01		0.20									0.20		
Golconda																																
Halleck					0.50		0.50					0.05			0.10		0.05			0.10												
Humboldt					0.25	0.20	0.45					0.60			0.04			0.40														
Mill City					0.02	0.22					0.22	0.11								0.10	0.10	0.20		0.25								
Paradise Valley					T		T			T	0.05	0.02	T					0.10	0.10	0.20												
Quinn River Ranch																																
San Jacinto																																
Squaw Valley																																
Tecoma					T	T				T	0.20	0.10	T							T	T											
Wells																																
Winnemucca				0.04	0.24	0.10	0.58			0.08		0.09			0.10		0.12		0.19													
Eastern Section.																																
Hamilton								0.20		0.40	0.40	T			T				T	T	T											
McGill																																
Central Section.																																
Austin					0.10	*	0.55			0.30					0.35		0.05		0.05													
Eureka							0.20			0.30		T			0.20		T		0.20	0.35												
Millett										0.30					0.05				0.10													
Potts							T				T				T	0.08				0.10												
Western Section.																																
Carson Dam					0.10		0.15										T															
Fallon					0.12		0.21			0.04					0.20				0.01													
Fernley					0.24	T	0.27			0.11	T			0.05			T		T													
Gardnerville																																
Leetville				0.14		0.34																										
Lewers' Ranch				T		1.30	1.03			1.20					T				T	*	0.20											
Reno				0.01	0.04	0.39	0.08			0.37					T				0.05													
Soda Lake					0.12		0.30			0.02											0.12											
Wabuska					0.20		0.25			0.30										T												
Southern Section.																																
Columbia																				0.20												
Geyser										T																						
Jean										0.30										0.40												
Las Vegas																																
Logan																																
McAfee's Ranch						0.50	T			1.50									T													
Mina																																
Palmetto					T	T		0.30		0.20					T				0.10													
Tonopah							0.04			0.08									0.08													

T indicates trace. \* Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, - J. G. MCCARTHY, SUPT



1908



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR JANUARY, 1908.

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NEVADA SECTION  
OF THE  
CLIMATOLOGICAL SERVICE  
OF THE  
WEATHER BUREAU

IN COOPERATION WITH THE  
NEVADA STATE WEATHER SERVICE

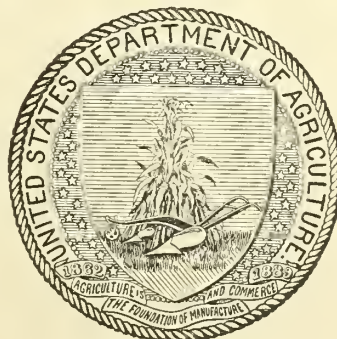
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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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UNDER DIRECTION OF  
WILLIS L. MOORE  
CHIEF U. S. WEATHER BUREAU

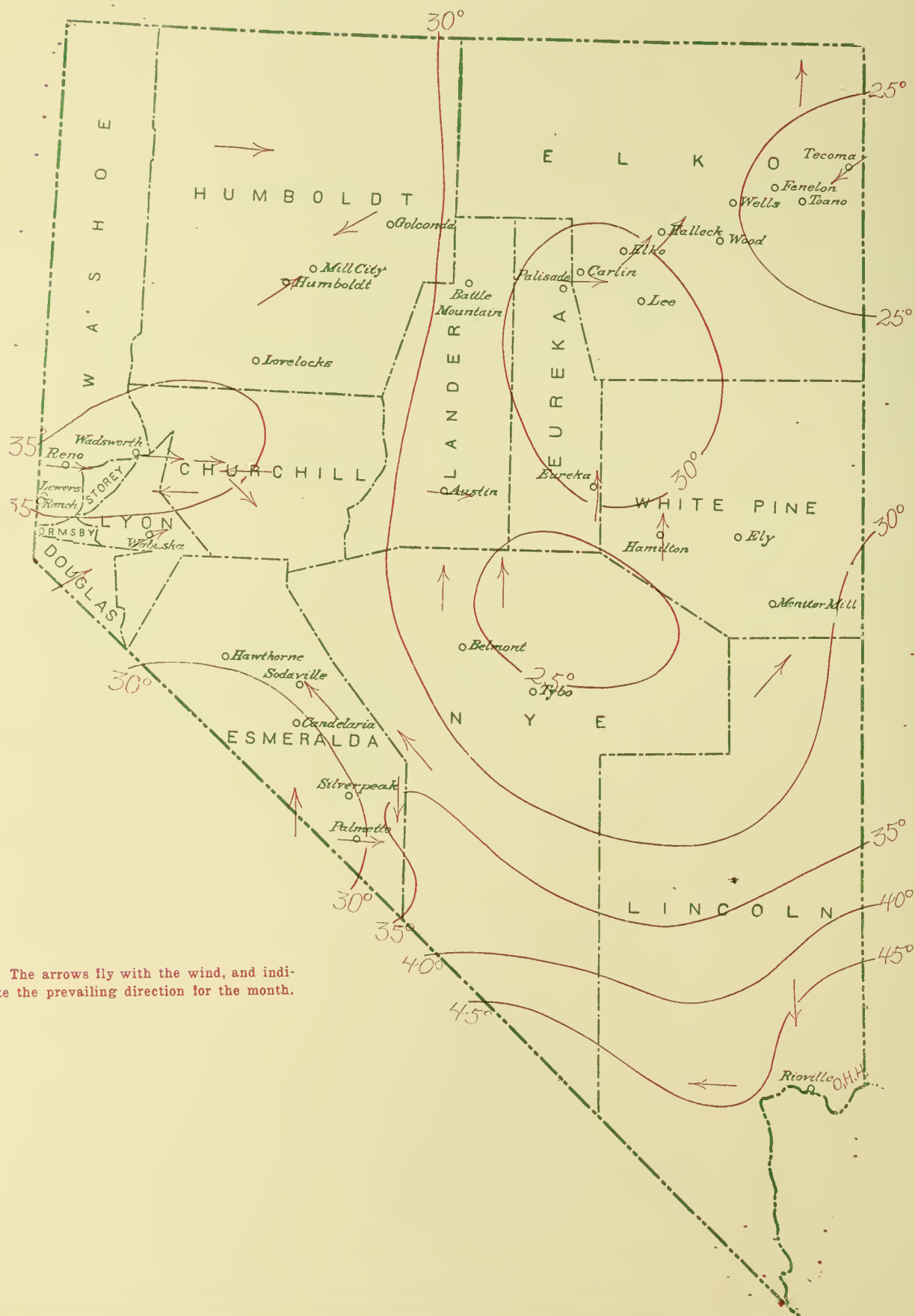
BY  
HARRY O. GEREN  
SECTION DIRECTOR



CARSON CITY, NEVADA:  
February 27, 1908.



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR JANUARY, 1908.





U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**  
 OF THE  
**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,  
 HARRY O. GEREN, Section Director.

VOL. XXII. RENO, NEVADA, JANUARY, 1908. No. 1.

**GENERAL SUMMARY.**

The weather for the month as a whole was warm, the mean temperature being the fourth highest on record for January. During the first week the daily mean temperatures were close to the normal, but during nearly all the remainder of the month they were above it. About two-thirds of the monthly maximum temperatures were recorded during the second decade, while the remainder occurred on the 7th, 8th, and 9th. There were but few stations at which the temperature reached zero or below. At Jean, in Lincoln County, the first freezing temperature of the winter was recorded on the 26th. The monthly minimum temperatures occurred mostly on the 31st in the northern section, about the 7th in the central and western sections, and on the 8th, 29th, 30th, and 31st in the southern section.

The precipitation was below the normal. Widely scattered showers occurred on 3d, 4th, and 8th, while on the 14th a general precipitation occurred. Over the northern half of the State it was rather general on the 21st, 24th, and 30th. Over the southern half it occurred in the western counties nearly every day from the 20th to the 27th, inclusive, and in the remainder of this portion from the 23d to the 28th, inclusive. The amount of snowfall was about equal to the average, but was much less than the unusually heavy fall of last January.

**Temperature.**

The mean temperature for the State was 32.5°, which is 3.5° higher than the normal for the month, and 5.5° higher than the mean for the corresponding month of 1907. The highest monthly mean temperature was 49.8°, at Jean, Lincoln County. The lowest monthly mean temperature was 20.2°, at Tecoma, Elko County. The highest temperature was 75°, at Las Vegas, Lincoln County, on the 16th, and the lowest was 17° below zero, at Halleck, Elko County, on the 31st. The greatest daily range was 60°, at Elko, Elko County, on the 12th.

**Precipitation.**

The average amount for the State was 0.97 inch, which is 0.35 inch less than the normal for the month, and 1.25 inches less than the average for the corresponding month of 1907. The greatest monthly amount was 3.40 inches, at Palmetto,

Esmeralda County, while the least was 0.18 inch, at Las Vegas, Lincoln County. The greatest amount recorded in twenty-four hours was 1.20 inches, at Eureka, Eureka County, on the 24th. The average number of days with 0.01 inch or more of precipitation was 5.

**Wind.**

The prevailing direction was west. The average hourly velocity at Reno was 3.9 miles; at Tonopah it was 9.2 miles, and at Winnemucca it was 6.1 miles. The maximum velocity for a period of five minutes at Reno was at the rate of 26 miles per hour, west, on the 8th; at Tonopah it was 34 miles per hour, northwest, on the 4th, and at Winnemucca it was 32 miles per hour, southwest, on the 8th.

**Sunshine and Cloudiness.**

The average number of clear days was 11, partly cloudy days 9, and cloudy days 11.

**MISCELLANEOUS PHENOMENA.**

*Fog*—Beowawe, 22d; Eureka, 22d; Halleck, 25th; Reno, 13th, 26th.

*Halos, Lunar*—Eureka, 10th; Reno, 16th; Winnemucca, 10th, 12th, 16th.

*Halos, Solar*—Clover Valley, 29th; Eureka, 10th; Hamilton, 12th; Millett, 1st, 30th; Winnemucca, 10th.

*High Winds*—Austin, 23d, 24th; Battle Mountain, 30th; Clover Valley, 9th, 24th; Columbia, 4th, 14th, 22d, 25th; Hamilton, 24th; Las Vegas, 4th, 14th; Palmetto, 4th, 14th; Potts, 4th, 6th, 10th, 16th, 24th, 30th; Reno, 8th; Tonopah, 4th; Winnemucca, 8th.

*Sleet*—Columbia, 23d, 24th; Palmetto, 27th.

**COMPARATIVE STATE DATA FOR JANUARY.**

Year.	Temperature.			Average precipi- tation.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1890 .....	20.4	73	-42	3.81	14	11	8	12	s
1891 .....	27.6	68	-25	0.21	2	11	16	4	N
1892 .....	26.7	73	-25	0.53	4	8	15	8	s
1893 .....	29.7	65	-28	1.23	4	12	9	10	s
1894 .....	28.0	70	-30	1.42	7	7	14	10	sw
1895 .....	25.9	61	-30	2.42	7	10	7	14	sw
1896 .....	33.9	75	-26	1.80	5	9	8	14	sw
1897 .....	30.2	65	-15	0.92	7	10	14	7	NW
1898 .....	20.4	66	-28	0.69	4	12	9	10	N
1899 .....	31.8	65	-12	1.20	6	11	7	13	.....
1900 .....	35.7	71	-10	0.42	2	16	5	10	sw
1901 .....	30.1	75	-19	1.51	5	13	6	12	sw
1902 .....	28.4	69	-32	0.51	4	12	9	10	sw
1903 .....	32.0	72	-16	1.81	3	16	5	10	sw
1904 .....	27.4	71	-22	0.53	3	17	6	8	sw
1905 .....	34.5	72	-11	0.66	3	11	8	12	s
1906 .....	28.7	66	-15	2.31	4	13	6	12	sw
1907 .....	27.0	73	-28	2.22	7	8	9	14	sw
1908 .....	32.5	75	-17	0.97	5	11	9	11	w
Entire period .....	29.0	75	-42	1.32	5	11	9	11	sw



## SNOWFALL IN THE MOUNTAINS.

The amount of snow in the mountains at the end of January was generally reported to be less than on January 31, 1907. Last year the amount was unusually large. The amount this year is probably up to the average, especially in the drainage area of the Humboldt River, where the best conditions prevail. A favorable feature this year is that considerable old snow was left near the summits of the mountains at the beginning of the season. Two factors brought about this condition, the unusually large amount of snow last winter and the exceptionally cool summer. Judging from the present indications, the flow of water should be about equal to the usual amount.

## CORRESPONDENTS' REMARKS.

## Humboldt River Drainage.

**Beowawe**—There is only about one-half as much snow as there was last year, but there will probably be plenty of water the coming season. J. M. HIGGINS.

**Carlin**—The water-flow will probably be less than it was last year, though not very much so, as this season's snowfall is nearly as great as that of last winter. C. W. J. ALLEN.

**Clover Valley**—There is about one-fourth more snow so far this season than there was to the same date last year. A good flow of water is certain for next season. I. F. WISEMAN.

**Halleck**—While the snow so far this season is about 35 per cent less than to the end of January last year, it is still as great as the usual amount. I believe the water-flow will be up to the average. A. H. CURTIS.

**Paradise Valley**—The amount of snow in the mountains is about the same as that of last year. I think that the water-flow will be about the same during the coming season. J. D. BRADSHAW.

**Rebel Creek**—There has been but little change in conditions since my last report. The flow of water will be good so far as present indications go. R. McLERAN.

**Wells**—The season's snowfall in the mountains is about the same as last year, but there seems to be less in the valleys. Most of the precipitation in the valleys has been in the form of rain, while in the mountains it was all snow. HERBERT BADT.

**Winnemucca**—The water-flow during the coming season will probably be slightly less, altho the snowfall in this vicinity is greater than last year. It is believed that the snowfall near the sources of the river is less than last year. U. S. WEATHER BUREAU OFFICE.

## Truckee River Drainage.

**Boca**—The snowfall to date is not so great as last year. It is from five to eight feet deep near the summit. R. C. WEEKS.

**Donner**—Only about one-half as much snow has fallen in the mountains as fell last year to the same date. The water-flow will probably be about one-half that of last year. W. O. BLINN.

**Glenbrook**—I do not believe that the flow of water during the coming season will be as great as that of last year. The season's snowfall in the mountains is not so heavy as it was last year, but still exceeds the usual amount a little. A. C. McCLEARY.

**Hobart Mills**—It is hard to form an opinion on the supply of water during the next season, but from present indications it will be very much less. S. E. PATTERSON.

**Tahoe**—The depth of snow in the mountains is about four feet less than at the same time last year. There will be a good flow of water. A. J. ROTHER.

**Truckee**—The water-flow from this locality will be much less than it was last year. It is hard to estimate it, as the greatest amount of snow usually comes later than this. M. S. RUTHERFORD.

## Carson River Drainage.

**Dayton**—The amount of snowfall is less and the water-flow will probably be less. THOS. P. MACK.

## Walker River Drainage.

**Bodie**—The amount of snow this year is much below the average. AL. TAYLOR.

**Bridgeport**—A foot of snow fell during the last storm. The season's snowfall is about equal to that of last year, and I think that the water-flow will be fully as large. GEO. A. MONTROSE.

**Mason Valley**—There is an unusual amount of old snow in the mountains. This season's snowfall is about 40 per cent less than last year. I think that there will be sufficient water for irrigation during the coming season. J. G. YOUNG.

**Smith**—I think that there will be plenty of water this year, but it will be considerably less than the unusually large flow of last year. The canyons are well filled with snow. C. M. CARTER.

**Sweetwater**—The snowfall has not been as great this year as it was last, but I think that there will not be much difference in the water-flow on account of the large amount of old snow. W. H. ROACH.

**Topaz**—About one-third as much snow has fallen this season as there was to the corresponding date last year. The water-flow will probably be about two-thirds as great, as we had some snow left over from last year. A. D. BIRD.

## Reese River Drainage.

**Berlin**—The present amount of snow indicates about the same amount of water as last year. G. B. HISKEN.

**Eureka**—There is not as much snow in the mountain ranges here as there was last season. I believe that the amount of water will be less than it was last season. CLAY SIMMS.

TABLE OF SNOWFALL.

Station.	County.	Compared with average.	On ground January 31st.	
			At station.	At or near summit of mountains.
			Inches.	Inches.
<i>Humboldt River Drainage:</i>				
Beowawe.....	Lander .....	Average .....	6	6
Carlin.....	Elko.....	Average .....	4	36
Charleston.....	Elko.....	Less.....	0	6
Clover Valley.....	Elko.....	More.....	4	120
Halleck.....	Elko.....	Average .....	3	18
Lamoille.....	Elko.....			
Paradise Valley.....	Humboldt.....	Average .....	0	30
Kebel Creek.....	Humboldt.....	Less.....	1	12
Tuscarora.....	Elko.....			
Wells.....	Elko.....	Average .....	3	120
Winnemucca.....	Humboldt.....	More.....	0	120
<i>Truckee River Drainage:</i>				
Boca, Cal.....	Nevada.....	Less.....	9	80
Donner, Cal.....	Nevada.....	Less.....	24	60
Floriston, Cal.....	Nevada.....			
Glenbrook.....	Douglas.....	Average .....	5	48
Hobart Mills, Cal.....	Nevada.....	Less.....	19	36
Marmol.....	Washoe.....			
Tahoe, Cal.....	Placer.....	Less.....	36	48
Truckee, Cal.....	Nevada.....	Less.....	24	48
Wadsworth.....	Washoe.....		0	
<i>Carson River Drainage:</i>				
Dayton.....	Lyon.....	Less.....	0	
Markleeville, Cal.....	Alpine.....			
Woodfords, Cal.....	Alpine.....	Average .....	4	36
<i>Walker River Drainage:</i>				
Bodie, Cal.....	Mono.....	Less.....	48	120
Bridgeport, Cal.....	Mono.....	Less.....	10	144
Mason Valley.....	Lyon.....	Average .....	0	24
Inegrove.....	Esmeralda.....	Less.....	18	48
Schurz.....	Esmeralda.....			
Smith.....	Lyon.....	Average .....	0	72
Sweetwater.....	Esmeralda.....	Average .....	8	30
Topaz, Cal.....	Mono.....	Less.....	2	48
<i>Reese River Drainage:</i>				
Austin.....	Lander.....	Average .....	2	
Berlin.....	Nye.....	Less.....	12	12
Eureka.....	Eureka.....	Less.....	7	18
Galena.....	Lander.....			



## CLIMATOLOGICAL DATA FOR JANUARY, 1908.

Stations.	Counties.	Elevation (feet).	Length of record (years).	Temperature (degrees Fahrenheit).							Precipitation (inches).					Sky				Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.	Prevailing direction of wind.	
Northern Section.																				
Battle Mountain.....	Lander	4,511	38	29.4	+1.2	50	18	10	31	20	0.47	-0.41	0.20	4.7	4	14	10	7	.....	Agent So. Pacific Co.
Beowawe-3.....	Eureka	4,695	38	35.6	+9.2	50	16	8	31	25	0.81	+0.04	0.60	8.1	4	10	8	13	.....	Agent So. Pacific Co.
Carlin-3 A.....	Elko	4,897	38	22.0	-3.1	48	7	0	17	32	.....	.....	.....	.....	16	0	15	.....	Agent So. Pacific Co.	
Clover Valley†.....	Elko	6,000	9	25.8	.....	45	11	-9	31	37	0.81	.....	0.27	.....	4	13	11	7	.....	I. F. Wiseman
Elko-3.....	Elko	5,063	38	32.8	+10.1	70	12	0	26	60	1.00	-0.34	0.40	10.0	5	6	10	15	SW	Agent So. Pacific Co.
Fenelon.....	Elko	6,128	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Agent So. Pacific Co.
Golconda.....	Humboldt	4,392	30	36.4	+7.6	59	14	8	31	35	0.45	-0.17	0.25	2.0	2	19	0	12	.....	Agent So. Pacific Co.
Halleck-3.....	Elko	5,229	36	25.2	+3.6	45	11	-17	31	39	0.70	-0.31	0.30	7.0	5	11	11	9	SW	Agent So. Pacific Co.
Humboldt.....	Humboldt	4,236	37	32.8	+2.9	50	8	17	7	33	1.20	+0.39	1.00	2.0	2	4	13	14	SW	Agent So. Pacific Co.
Mill City-3.....	Humboldt	4,225	20	34.2	+6.6	50	8	12	31	32	1.25	+0.68	0.75	5.0	3	7	15	9	.....	Agent So. Pacific Co.
Quinn River Ranch¶ o.....	Humboldt	4,850	7	30.8	.....	49	19	5	25	42	0.74	.....	0.46	.....	3	.....	.....	.....	W	F. M. Payne
San Jacinto.....	Elko	.....	4	27.0	.....	48	18	-4	31	34	0.50	.....	0.20	5.0	4	11	15	5	S	Moses Jones
Squaw Valley**-2.....	Elko	5,100	2	28.8	.....	47	18	-14	31	45	2.00	.....	0.70	2.5	4	9	5	17	.....	Chas. D. Dorsey
Tecoma.....	Elko	4,812	31	20.2	+0.5	45	14	-10	30	51	0.60	+0.04	0.30	6.0	2	12	3	16	NE	Agent So. Pacific Co.
Wells.....	Elko	5,623	37	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Agent So. Pacific Co.
Winnemucca.....	Humboldt	4,432	30	33.6	+4.8	53	18	9	31	32	0.56	-0.48	0.20	2.7	5	6	8	17	NE	U. S. Weather Bureau
Means.....		.....	.....	30.0	.....	.....	.....	.....	.....	.....	0.85	.....	.....	5.0	4	11	8	12	SW	.....
Eastern Section.																				
Hamilton.....	White Pine	7,977	2	.....	.....	34	17	.....	.....	.....	1.90	.....	0.60	19.0	5	17	4	10	S	..... Geo. Allen
McGill A.....	White Pine	.....	1	30.2	.....	54	10	5	30	42	0.67	.....	0.60	6.8	3	10	15	6	S	..... W. G. Perkins
Means.....		.....	.....	30.2	.....	.....	.....	.....	.....	.....	1.28	.....	.....	12.9	4	14	9	8	S	.....
Central Section.																				
Austin G.....	Lander	6,594	20	28.4	+1.6	46	9	11	5	24	1.55	+0.31	0.70	15.5	4	.....	.....	.....	W	..... F. H. Triplett
Eureka.....	Eureka	6,500	6	30.4	.....	53	8	4	3	38	2.15	.....	1.20	22.0	7	10	11	10	S	..... Clay Simms
Millet.....	Nye	.....	1	26.6	.....	54	20	-5	7	41	0.82	.....	0.42	4.0	3	14	7	10	S	..... Fred J. Jones
Potts.....	Nye	6,990	16	23.5	-1.2	47	20	-11	8	49	0.22	-0.38	0.15	4.5	3	5	9	17	S	..... Miss Mamie Potts
Means.....		.....	.....	27.2	.....	.....	.....	.....	.....	.....	1.18	.....	.....	11.5	4	10	9	12	S	.....
Western Section.																				
Carson Dam††.....	Churchill	4,032	2	36.0	.....	55	9	15	7	36	0.62	.....	0.20	1.0	4	10	13	8	E	..... J. M. Heizer
Fallon A.....	Churchill	3,965	4	34.8	.....	56	18	12	7	40	0.49	.....	0.16	2.0	5	8	22	1	NW	..... U. S. Reclamation Serv.
Fernley ††.....	Lyon	.....	1	35.6	+3.6	56	20	13	7	39	0.79	+0.01	0.31	2.2	9	11	9	11	W	..... U. S. Reclamation Serv.
Gardnerville M.....	Douglas	4,830	9	32.0	.....	59	22	7	31	44	0.65	.....	0.25	4.0	5	.....	.....	.....	SW	..... William Dangberg
Leetville †.....	Churchill	4,020	2	35.2	.....	55	18	12	7	39	0.33	.....	0.11	T	4	13	16	2	W	..... U. S. Reclamation Serv.
Lewers' Ranch‡.....	Washoe	5,500	21	35.3	+1.5	59	19	14	31	38	1.80	-2.16	0.65	6.0	6	5	13	13	.....	..... Ross Lewers
Reno.....	Washoe	4,532	38	35.6	+3.1	58	8	16	6	33	0.83	-1.12	0.26	1.9	10	8	10	13	W	..... Central Office
Soda Lake¶ A.....	Churchill	4,005	2	36.4	.....	56	18	16	7	36	0.44	.....	0.15	0.0	5	10	4	17	E	..... U. S. Reclamation Serv.
Wabuska.....	Lyon	4,347	6	34.0	.....	60	8	6	3	52	0.45	.....	0.25	4.5	2	16	9	6	SW	..... J. G. Young
Means.....		.....	.....	35.0	.....	.....	.....	.....	.....	.....	0.71	.....	.....	2.4	6	10	12	9	W	.....
Southern Section.																				
Columbia.....	Esmeralda	5,750	2	37.7	.....	66	14	11	30	39	0.67	.....	0.20	4.7	7	13	7	11	N	..... Will W. Thompson
Geyser.....	Lincoln	.....	4	28.0	.....	58	7	0	31	54	0.30	.....	0.30	3.0	1	9	19	3	SW	..... J. F. Wambolt
Jeana.....	Lincoln	2,074	1	49.8	.....	62	9	32	26	19	1.30	.....	1.00	0.0	4	20	0	11	.....	Agent Salt Lake Route
Las Vegas B.....	Lincoln	.....	1	43.2	.....	75	16	17	8	48	0.18	.....	0.09	0.0	6	16	2	13	E	Agent Salt Lake Route
Logan.....	Lincoln	1,700	2	45.1	.....	65	6	23	8	37	1.90	.....	0.70	0.0	7	13	9	9	N	..... Chas. Arney
McAfee's Ranch*.....	Esmeralda	4,835	5	26.4	.....	58	9	-15	29	55	1.10	.....	0.70	12.0	2	14	8	9	S	..... G. A. McAfee
Mina.....	Esmeralda	4,600	2	35.6	.....	54	5	17	28	31	0.60	.....	0.30	6.0	2	20	0	11	SE	Agent So. Pacific Co.
Palmetto.....	Esmeralda	6,780	19	29.3	-0.7	56	9	-4	31	45	3.40	+1.83	0.90	33.0	6	14	7	10	W	..... Wm. Oothout, Jr.
Tonopah.....	Nye	6,090	2	33.6	+8.7	48	8	14	31	15	1.10	+0.36	0.39	10.7	7	9	13	9	SE	..... U. S. Weather Bureau
Means.....		.....	.....	36.6	.....	.....	.....	.....	.....	.....	1.24	.....	.....	7.9	5	14	8	9	N	.....
State Means and Extremes.																				
.....				32.5	+3.5	75	16	-17	31	60	0.97	-0.35	1.20	6.2	5	11	9	11	W	.....
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REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station indicates the number of days missing from the record; for instance, "N" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

†Postoffice—Wells. †Postoffice—Franktown. †Postoffice—Amos. \*Postoffice—Dyer †Postoffice—Fallon. \*\*Postoffice—Golconda. ††Postoffice—Hazen. ††Postoffice—Wadsworth.

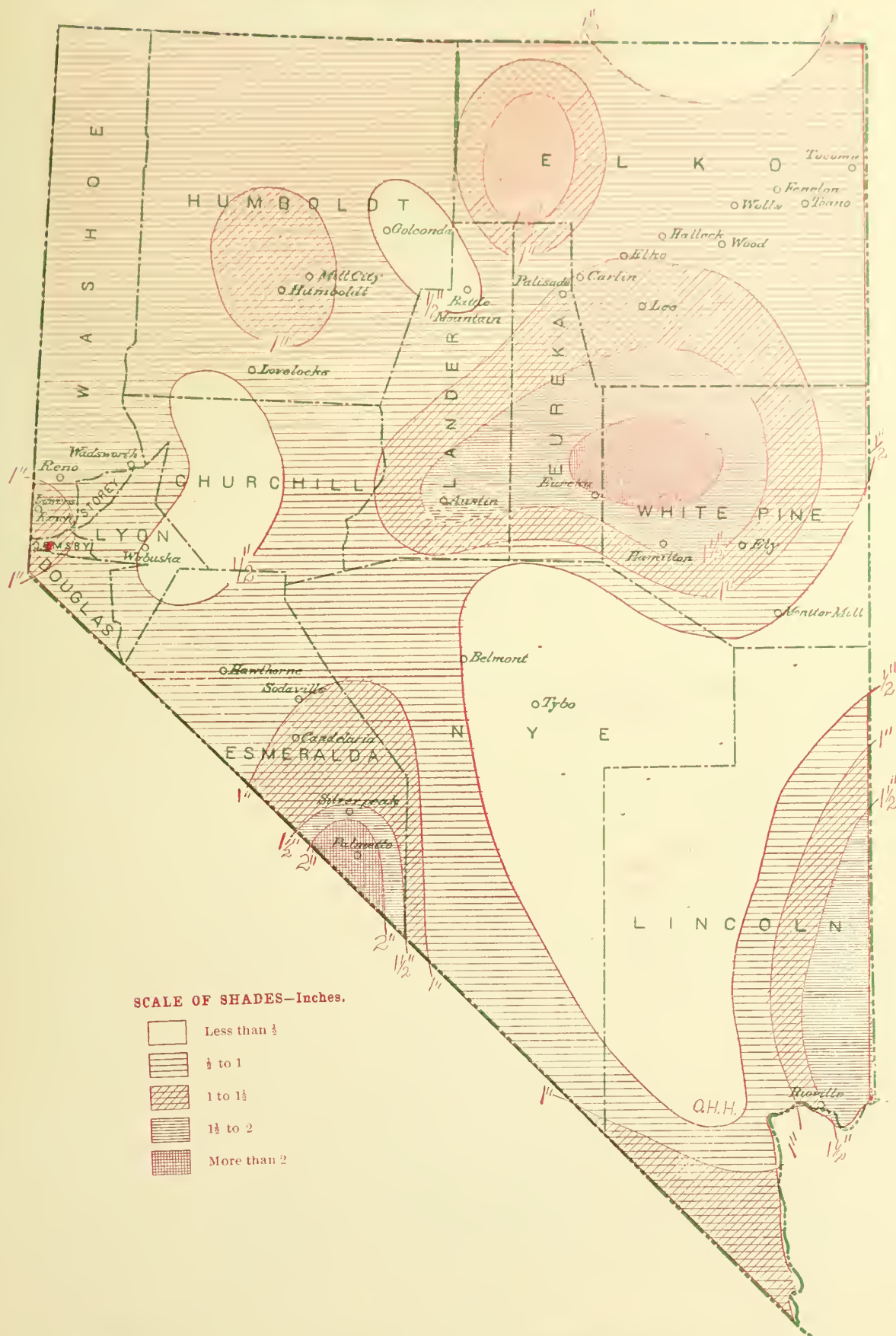


### Estimations.

Stations.	Day of Month.																															Months.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Anstsin .....	Max. 34	40	37	39	35	37	39	39	46	45	44	40	44	40	36	40								38	33	35	32	32	32	28	22	37.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Battle Mountain .....	Min. 30	28	32	36	36	34	36	34	36	36	28	38	33	38	37	39	44							19	15	26	20	19	15	11	12	19.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Carson Dam .....	Min. 24	22	20	24	24	21	22	22	20	22	26	24	26	24	27	46	47	30	30	28	32	35	34	26	28	38	14	11	24	18	10	36.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Chower Valley .....	Max. 44	47	45	44	45	44	47	51	55	43	50	49	48	47	46	47	27	28	19	25	35	34	32	30	28	38	41	45	41	28	22	46.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Chower Valley .....	Min. 20	21	20	25	19	18	15	16	35	19	30	27	37	38	36	42	43	42	42	43	42	41	43	38	36	38	31	36	32	28	17	37.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Columbia .....	Max. 11	41	39	31	39	33	34	37	44	34	45	40	20	20	29	16	11	11	52	54	55	54	54	54	49	20	31	42	49	15	9	44.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Columbia .....	Min. 20	16	7	13	7	3	3	11	28	9	18	20	20	20	26	28	24	24	52	54	55	54	54	54	49	20	31	42	49	15	9	44.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Eureka .....	Max. 54	51	52	56	46	54	58	54	54	52	53	55	53	65	49	55	54	29	54	55	54	54	54	54	49	20	31	42	49	15	9	44.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Eureka .....	Min. 20	25	20	23	30	18	19	19	24	21	24	40	48	44	39	46	43	45	45	47	48	40	40	35	36	35	37	35	39	13	5	40.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Fallon .....	Max. 38	42	42	34	39	42	45	53	42	40	40	48	40	48	41	39	46	43	43	45	47	48	40	40	35	36	35	37	35	39	13	5	40.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Fallon .....	Min. 15	27	4	21	16	13	14	22	43	12	21	29	29	31	29	36	56	56	56	48	52	44	49	45	35	37	40	42	41	40	36	21	19.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Fernley .....	Max. 50	47	44	40	41	48	52	52	43	50	50	48	48	48	48	46	46	46	46	48	52	44	49	45	35	37	40	42	41	40	36	21	19.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Fernley .....	Min. 12	18	14	24	16	13	14	12	16	16	27	29	29	29	29	47	47	47	44	55	49	56	50	41	44	38	38	47	43	38	33	45.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Gardnerville .....	Max. 42	50	44	40	45	44	46	51	51	43	54	47	46	45	46	47	21	29	44	55	49	56	50	41	44	38	38	47	43	38	33	45.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Gardnerville .....	Min. 18	20	17	29	17	14	13	15	34	21	30	25	32	34	36	52	47	47	47	50	23	36	33	31	31	42	29	30	31	23	30	21	26.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Geyser .....	Max. 46	46	52	48	48	48	58	54	52	46	48	44	36	23	23	14	16	16	12	12	12	15	17	16	17	16	13	10	8	9	7	16.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Geyser .....	Min. 8	3	6	7	7	7	4	20	7	11	11	6	16	10	11	11	11	10	46	48	46	48	44	41	41	41	41	40	41	39	36	40	46.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Golconda .....	Max. 44	43	44	43	51	47	44	41	55	50	49	51	46	59	51	47	49	53	53	52	48	52	49	47	45	35	37	40	42	41	40	36	21	19.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Golconda .....	Min. 28	28	20	22	22	22	18	18	36	22	26	32	32	34	32	29	29	27	28	31	28	25	25	25	25	25	26	26	26	25	24	20	10.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Hamilton .....	Max. 25	25	20	20	20	25	30	24	30	30	27	32	30	34	32	30	34	37	30	27	28	41	39	46	42	42	39	46	42	45	41	47	45.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Hamilton .....	Min. 25	25	20	20	20	25	30	24	30	30	27	32	30	34	32	30	34	37	30	27	28	41	39	46	42	42	39	46	42	45	41	47	45.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Humboldt .....	Max. 58	59	58	52	56	57	54	58	62	58	62	58	59	60	62	48	45	43	60	58	60	58	60	54	54	54	48	48	50	50	47	45	56.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Humboldt .....	Min. 49	48	43	42	43	41	41	40	44	46	42	42	42	42	42	48	45	43	60	58	60	58	60	54	54	48	48	50	50	47	45	47	45	56.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Jean .....	Max. 58	59	58	52	56	57	54	58	62	58	62	58	59	60	62	48	45	43	60	58	60	58	60	54	54	48	48	50	50	47	45	47	45	56.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Las Vegas .....	Min. 26	26	36	34	39	26	25	17	23	27	27	25	26	31	24	27			64	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62



TOTAL PRECIPITATION FOR JANUARY, 1908.





## DAILY PRECIPITATION FOR JANUARY, 1908.

Stations.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Northern Section.																																	
Battle Mountain													0.05	0.10								0.02	0.20						0.20		0.47		
Beowave				0.01																			0.10						0.60		0.81		
Carlin														0.18							0.27			0.25					0.11		0.81		
Clover Valley							0.20						0.10										0.20					0.40			1.00		
Elko	0.10																							0.20									
Fenelon																								0.20								0.45	
Golconda														1.00								0.10	0.10	0.30								0.70	
Halleck													0.10										0.20									1.20	
Humboldt													1.00										0.20									0.45	
Mill City													0.75										0.20									0.70	
Paradise Valley													0.33										0.20									0.57	
Quinn River Ranch													0.46										0.20									0.74	
San Jacinto							0.10						0.10										0.20									2.00	
San Jacinto													0.70										0.30									0.60	
Squaw Valley														T										0.30									
Tecoma																																	
Wells																																	
Winnemucca				0.03				T					0.03	0.20											0.18								0.56
Eastern Section.																																	
Hamilton																																1.90	
McGill				0.40									T	T	0.30	0.05						T		0.60	0.60					0.40	0.20	0.67	
Central Section.																																	
Austin																																1.55	
Eureka				0.05										0.70									0.20		0.20	1.20	T					2.15	
Millett													0.04	0.01									*	0.42	T	0.40						0.82	
Potts													0.05											0.15								0.22	
Western Section.																																	
Carson Dam																																0.62	
Fallon														T	0.20							0.13	0.19	T	T	0.10						0.49	
Fernley													0.09									0.06		0.13		0.03	0.05					0.79	
Gardnerville													0.05	0.02	0.02							0.31	0.09	0.14		0.03						0.65	
Leetville													0.10									0.05		0.10	0.15	0.25						0.33	
Lewers' Ranch														T	0.05							0.11	0.07	0.10	T	T					1.80		
Reno																						T	0.55		T	*	0.40					0.83	
Soda Lake				T			0.01					0.03	T	0.26	T							0.10	0.17	0.08	0.10	0.05	0.01	0.02				0.44	
Wabuska													0.08									0.15	0.01	T	0.25	0.20						0.45	
Southern Section.																																	
Columbia																																0.67	
Geyser														0.04								0.06	T	0.20	0.15	0.05	0.08	0.09				0.30	
Jean														0.10								*	0.30		0.10	1.00						1.30	
Las Vegas				0.02									*										0.01	0.01	0.03	0.09						0.18	
Logan													0.22										0.30	0.30	0.22	0.70						1.90	
McAfee's Ranch																						T	0.70	0.40								1.10	
Mina																							0.30	0.30	0.30							0.60	
Palmetto												T	0.80										0.90	0.60	0.80	0.20	0.10	T				3.40	
Tonopah												0.04	0.39										0.06	0.30	0.20	0.01	0.10	T				1.10	

T Indicates trace. \* Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, -  J. G. McCARTHY, SUPT.

1908



U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR FEBRUARY, 1908.

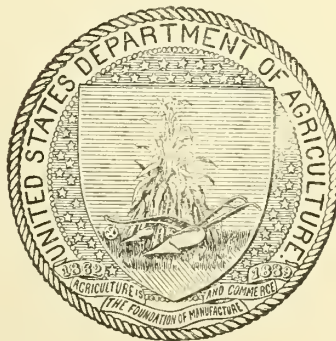
NEVADA SECTION  
OF THE  
CLIMATOLOGICAL SERVICE  
OF THE  
WEATHER BUREAU

IN COOPERATION WITH THE  
NEVADA STATE WEATHER SERVICE

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF  
WILLIS L. MOORE  
CHIEF U. S. WEATHER BUREAU

BY  
HARRY O. GEREN  
SECTION DIRECTOR

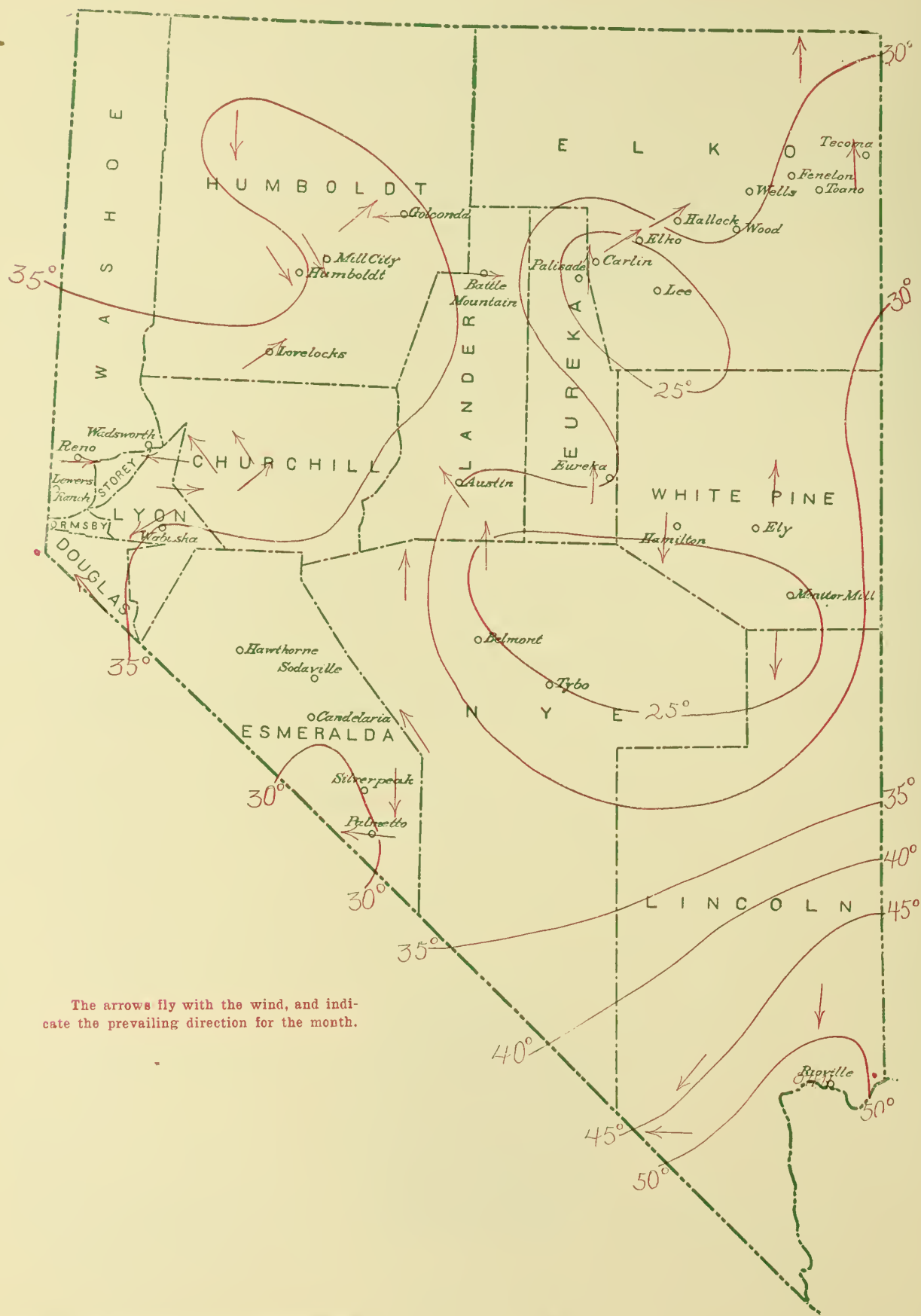


CARSON CITY, NEVADA:

April 4, 1908.



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTION FOR FEBRUARY, 1908.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**  
 OF THE  
**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,  
 HARRY O. GEREN, Section Director.

VOL. XXII. RENO, NEVADA, FEBRUARY, 1908. No. 2.

**GENERAL SUMMARY.**

The mean temperature for the State was above the normal, while the precipitation was less than the usual amount. The temperature exceeded the normal during the first and third decades, while during the second decade it averaged below it. The maximum temperatures for the month were recorded from the 25th to the 28th, inclusive, at nearly all of the stations, while the minimum temperatures occurred mostly on the 13th and 14th, especially over the southern half of the State. Over the northern half the minimum temperatures were recorded mostly on the 1st, 2d, and 13th.

The precipitation was greatest at stations of high altitude in White Pine, Eureka, and Esmeralda Counties. Over most of the northern portion the amount was less than an inch and was well distributed thruout the month, while over the southern half the precipitation exceeded one inch at about one-half of the stations. Over the latter portion it occurred generally on the 3d, 9th, 10th, 17th, 22d, and 29th. The snowfall was less than the usual amount.

**Temperature.**

The mean temperature for the State was  $34.6^{\circ}$ , which is  $1.6^{\circ}$  higher than the normal for the month, and  $7.3^{\circ}$  lower than the mean for the corresponding month of 1907. The highest monthly mean temperature was  $49.9^{\circ}$ , at Jean and Logan, in Lincoln County. The lowest monthly mean temperature was  $22.2^{\circ}$ , at Elko, Elko County. The highest temperature was  $79^{\circ}$ , at Leetville, Churchill County, on the 27th, and the lowest was  $10^{\circ}$  below zero, at Potts, Nye County, on the 14th. The greatest daily range was  $56^{\circ}$ , at Geyser, Lincoln County, on the 27th.

**Precipitation.**

The average amount for the State was 1.07 inches, which is 0.22 inch less than the normal for the month, and 0.21 inch less than the average for the corresponding month of 1907. The greatest monthly amount was 5.20 inches, at Hamilton, White Pine County, while the least was 0.01 inch, at Mill City, Humboldt County. The greatest amount recorded in twenty-four hours was 1.60 inches, at Palmetto, Esmeralda County, on the 9th. The average number of days with 0.01 inch or more of precipitation was 4.

**Wind.**

The prevailing direction was south. The average hourly velocity at Reno was 5.1 miles; at Tonopah it was 11.2 miles, and at Winnemucca it was 7.3 miles. The maximum velocity for a period of five minutes at Reno was at the rate of 45 miles per hour, southwest, on the 28th; at Tonopah it was 36 miles per hour, southeast, on the 9th, and at Winnemucca it was 44 miles per hour, southwest, on the 28th.

**Sunshine and Cloudiness.**

The average number of clear days was 12, partly cloudy days 9, and cloudy days 8.

**MISCELLANEOUS PHENOMENA.**

*Chinook Winds*—Millett, 8th.

*Fog*—Las Vegas, 3d; Millett, 16th; Palmetto, 22d.

*Gales*—Clover Valley, 29th; Hamilton, 28th; Reno, 28th; Winnemucca, 28th.

*Hail*—Anstin, 10th; Carlin, 17th.

*Halos Lunar*—Reno, 18th; Tonopah, 18th; Winnemucca, 15th, 24th.

*Halos, Solar*—Eureka, 15th; Millett, 19th.

*High Winds*—Anstin, 8th, 9th, 10th, 11th, 17th, 21st; Carson Dam, 8th, 11th, 16th, 27th, 28th, 29th; Clover Valley, 11th, 12th, 25th, 26th, 27th, 28th; Columbia, 8th, 9th, 12th, 13th, 28th; Eureka, 9th; Fallon, 2d, 8th, 9th, 11th, 16th, 26th, 27th; Gardnerville, 28th; Hamilton, 2d, 3d, 9th, 12th, 16th, 27th; Jean, 19th, 27th; Las Vegas, 12th, 13th, 21st, 26th, 27th, 28th; Leetville, 11th, 27th; Mill City, 11th; Palmetto, 9th, 12th, 28th; Potts, 9th, 18th, 19th; San Jacinto, 10th, 11th; Tonopah, 9th.

*Sandstorms*—Fallon, 28th; Leetville, 28th.

*Sleet*—Columbia, 21st; Leetville, 9th.

**COMPARATIVE STATE DATA FOR FEBRUARY.**

Year.	Temperature.			Average precipitation.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1890 .....	30.7	88	-41	1.55	9	11	8	9	s
1891 .....	30.5	66	-19	2.39	7	8	12	8	s
1892 .....	33.4	65	-18	0.95	4	7	12	10	s
1893 .....	29.0	69	-40	1.43	5	10	15	3	sw
1894 .....	25.7	71	-41	1.92	6	9	10	9	sw
1895 .....	31.1	77	-35	1.23	4	13	6	9	n
1896 .....	35.2	86	-12	0.20	2	16	8	5	w
1897 .....	30.1	67	-22	2.00	11	11	9	8	s
1898 .....	36.9	79	-2	0.29	2	12	10	6	w
1899 .....	33.3	73	-27	0.55	4	13	7	8	w
1900 .....	35.3	76	-12	0.51	4	11	6	11	sw
1901 .....	31.6	77	-27	2.61	8	7	5	16	sw
1902 .....	36.4	75	-16	1.42	6	7	9	12	sw
1903 .....	20.7	86	-32	0.56	3	17	5	6	n
1904 .....	35.9	73	-15	2.48	7	9	7	13	sw
1905 .....	37.8	80	-37	1.13	4	14	6	8	n
1906 .....	36.4	69	2	1.03	5	10	6	12	sw
1907 .....	41.9	78	9	1.28	4	11	7	10	n
1908 .....	34.6	79	-10	1.07	4	12	9	8	s
Entire period .....	33.0	88	-41	1.29	5	11	8	9	sw



## SNOWFALL IN THE MOUNTAINS.

While the amount of accumulated snow in the mountains increased generally during February, it is less than the usual amount and much less than that at the corresponding date of last year. Over the Truckee and Carson drainage basins the conditions are poorest, while over the remainder of the State they are somewhat better. The Humboldt and Walker River drainage areas have the best prospects. The weather during March will, of course, have considerable influence in determining the supply of water, but the outlook now is for less than the average amount. It is reasonably sure that it will be considerably less than the unusual flow of last season.

## CORRESPONDENTS' REMARKS.

## Humboldt River Drainage.

**Beowawe**—There will probably be plenty of water for crops during the coming season, but the amount will not be as great as that of last year. J. M. HIGGINS.

**Carlin**—The snowfall has been very light, and the amount of water will be correspondingly less. LEE J. ALLEN.

**Clover Valley**—The water-flow will probably be better this year than it was last season. There has been but little change in conditions since the last report. I. F. WISEMAN.

**Lamoille**—It is a little too early to predict the amount of irrigation water for the coming season, but it will probably be less than it was last season, as the amount of snow is only about one-half as great. JAS. F. HOLLAND.

**Paradise Valley**—There will be less water this year. The snowfall is less than the average for the past five years. J. D. BRADSHAW.

**Rebel Creek**—Judging by the present conditions the amount of water will be about one-third less than it was last year; it will probably be a little less than the average amount. R. McLERAN.

**Tuscarora**—With good March storms this section will be put in fairly good condition. The present outlook is for a smaller supply of water than that of last year. W. I. PLUMB.

**Winnemucca**—Heavy snow fell in the mountains during the autumn and in December, but there was a marked deficiency during January and February. There is a good volume of water in the Humboldt at present, but the water supply is likely to fail early.

U. S. WEATHER BUREAU OFFICE.

## Truckee River Drainage.

**Donner**—The indications now are that the flow of water will be about three-fourths as great as it was last year, and will be nearly equal to the usual amount. W. O. BLINN.

**Glenbrook**—Mild weather has prevailed during the past month. The amount of snow in the mountains is less than at the same time last year. I believe that the flow of water during the coming season will be less than the average. A. C. McCLEARY.

**Hobart Mills**—The present outlook for irrigation water is for about two-thirds of the amount during last season. The flow, however, will be only a little less than the usual amount. S. E. PATTERSON.

**Marmol**—There is not nearly so much snow in the mountains this year as there was last. JOSEPH BAINES.

**Tahoe**—The water-flow this season will be less than it was last year, but will be more than the average flow. The depth of snow in the mountains is about two feet less than at the same time last year. A. J. ROTHER.

**Truckee**—This season's snowfall in the mountain ranges is less than it was last year. The amount of water during the coming season will probably be less. M. S. RUTHERFORD.

**Wadsworth**—The water-flow during the coming season will be less than last year. MRS. A. J. RANKIN.

## Carson River Drainage.

**Dayton**—The past winter has been the mildest in a long time. I think there will be sufficient water for irrigation during the coming season, altho it will be less than the average. THOS. P. MACK.

**Woodfords**—There will be plenty of early water, but the prospect for the summer months compares with 1898. The amount of snow in the mountains is about one-half that of last year, and about two-thirds of the average amount. MRS. MARY MERRILL.

## Walker River Drainage.

**Bodie**—The amount of snow is much less than last year and is a little less than the usual amount. The flow of water will be somewhat less. AL. TAYLOR.

**Bridgeport**—I believe the flow of water this year will be greater than it was last year. The amount of snowfall so far this year is about the same, but several years of unusually heavy snowfall may make the flow of water this year greater. GEORGE A. MONTROSE.

**Pine Grove**—I estimate the flow of water during the coming season at about one-half that of last year, as the amount of snow in the mountains is about half as great. CHAS. THORPE.

**Smith**—I think there will be plenty of water for irrigation, altho it will be considerably less than that of last season. C. M. CARTER.

**Sweetwater**—There will not be much difference in the water supply this season and last season. W. H. ROACH.

**Topaz**—The amount of snow in the mountains is about three-fourths as great as last year. The supply of water may not last as long as it did last year. C. W. RICKEY.

## Reese River Drainage.

**Berlin**—The water-flow will be fully as great, or greater, than that of last year. The surface of the ground is in good condition to receive moisture. G. B. HISKEY.

**Eureka**—There has been more snow here to date than there was last year, but the water-content is smaller. I believe that the supply of water will be about the same as that of last year. CLAY SIMMS.

## TABLE OF SNOWFALL.

Station.	County.	Compared with average.	On ground February 29th.	
			At station.	At or near summit of mountains.
			Inches.	Inches.
<i>Humboldt River Drainage:</i>				
Beowawe.....	Lander.....	Average.....	0	36
Carlin.....	Elko.....	Average.....	0	60
Charleston.....	Elko.....	Less.....	12	15
Clover Valley.....	Elko.....	Average.....	0	125
Halleck.....	Elko.....	Average.....	2	18
Lamoille.....	Elko.....	Average.....	4	60
Paradise Valley.....	Humboldt.....	Less.....	0	18
Rebel Creek.....	Humboldt.....	Less.....	0	18
Tuscarora.....	Elko.....	Less.....	0	24
Wells.....	Elko.....	Average.....	3	120
Winnemucca.....	Humboldt.....	Less.....	0	40
<i>Truckee River Drainage:</i>				
Boca, Cal.....	Nevada.....	Less.....	30	80
Donner, Cal.....	Nevada.....	Average.....	24	120
Floriston, Cal.....	Nevada.....	Less.....	12	84
Glenbrook.....	Douglas.....	Less.....	14	48
Hobart Mills, Cal.....	Nevada.....	Less.....	20	48
Marmol.....	Washoe.....	Less.....	0	100
Tahoe, Cal.....	Placer.....	Average.....	36	84
Truckee, Cal.....	Nevada.....	Less.....	30	108
Wadsworth.....	Washoe.....	Less.....	0	
<i>Carson River Drainage:</i>				
Dayton.....	Lyon.....	Less.....	0	4
Markleeville, Cal.....	Alpine.....	Less.....	0	
Woodfords, Cal.....	Alpine.....	Less.....	0	75
<i>Walker River Drainage:</i>				
Bodie, Cal.....	Mono.....	Less.....	72	280
Bridgeport, Cal.....	Mono.....	Average.....	1	240
Mason Valley.....	Lyon.....	Average.....	0	60
Pinegrove.....	Esmeralda.....	Less.....	20	48
Schurz.....	Esmeralda.....	Less.....		
Smith.....	Lyon.....	More.....	0	72
Sweetwater.....	Esmeralda.....	Average.....	6	36
Topaz, Cal.....	Mono.....	Average.....	0	48
<i>Reese River Drainage:</i>				
Austin.....	Lander.....	Average.....	2	
Berlin.....	Nye.....	Average.....	8	16
Eureka.....	Eureka.....	Average.....	5	18
Galena.....	Lander.....	Average.....		



## CLIMATOLOGICAL DATA FOR FEBRUARY, 1908

Stations	Counties	Temperature (degrees Fahrenheit)										Precipitation (inches)				Sky				Prevailing wind	Observers
		Elevation feet	Length of record years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest by range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall in inches	Number of days	Number of clear days	Number of partly cloudy days	Number of over- cast days			
Northern Section.																					
Battle Mountain	Lander	1,511	38	33.6	+1.5	61	27	18	1	20	0.90	+0.08	0.50	4.0	3	16	8	5	W	Agent So. Pacific Co.	
Beowawe-3	Eureka	1,695	38																	Agent So. Pacific Co.	
Carlin-3	Elko	1,897	38	23.0	-5.6	41	29	10	16	24						18	4	7	S	Agent So. Pacific Co.	
Clover Valley†	Elko	6,000	9	31.0		58	26	3	1	38	0.88		0.35	6.0	5	10	14	5		I. F. Wiseman	
Elko-3	Elko	5,063	38	22.2	-6.1	50	7	0	11	25	0.65	-0.36	0.20	5.5	6	10	13	6	SW	Agent So. Pacific Co.	
Fenelon	Elko	6,128	21																	Agent So. Pacific Co.	
Golconda	Humboldt	1,392	30	39.6	+4.2	78	27	11	13	45	0.30	-0.26	0.25	0.5	2	16	0	13	E	Agent So. Pacific Co.	
Halleck-3	Elko	5,229	36	30.5	+1.5	55	27	2	13	42	0.80	-0.29	0.60	8.0	2	17	8	4	SW	Agent So. Pacific Co.	
Humboldt	Humboldt	1,236	37	32.7	-1.1	57	26	12	13	31						9	15	5	NW	Agent So. Pacific Co.	
Lovelocks 0	Humboldt	3,977	16	38.6	+3.1	68	25	10	18	49									SW	G. S. Webb	
Mill City-3	Humboldt	1,225	20	35.8	+1.8	62	26	12	13	30	0.01	-0.41	0.01	0.1	1	11	18	0	NW	Agent So. Pacific Co.	
Quinn River Ranch‡	Humboldt	4,850	7	35.3		67	26	10	2	43	0.06		0.06	0.5	1	11	1	17	N	F. M. Payne	
San Jacinto	Elko		4	30.2		57	28	-3	2	40	0.10		0.10	1.0	1	11	7	11	S	Moses Jones	
Squaw Valley*-2	Elko	5,100	2																	Chas. D. Dorsey	
Tecoma	Elko	4,812	31	25.6	-2.5	58	28	-2	1	39	0.80	+0.29	0.40	8.0	3	15	0	14	S	Agent So. Pacific Co.	
Wells	Elko	5,623	37																	Agent So. Pacific Co.	
Winnemucca	Humboldt	1,432	30	36.3	+3.0	69	26	12	13	46	0.23	-0.70	0.12	2.0	4	12	9	8	SW	U. S. Weather Bureau	
Means				32.7							0.47			3.6	3	13	8	8	SW		
Eastern Section.																					
Hamilton	White Pine	7,977	2			34	27				5.20		1.50	52.0	11	16	6	7	N	Geo. Allen	
McGill A	White Pine		1	26.8	-1.9	53	26	-1	14	39	1.15	-0.04	0.55	13.3	9	3	15	11	S	W. G. Perkins	
Means				26.8							3.18			32.6	10	10	10	9	S		
Central Section.																					
Austin	Lander	6,594	20	31.0	+0.3	55	25	9	13	23	1.30	-0.09	0.50	13.0	10	18	6	5	SE	F. H. Triplett	
Eureka	Eureka	6,500	6	31.0		55	26	4	14	37	2.55		0.70	24.0	10	6	13	10	S	Clay Simms	
Millett	Nye		1	32.4		62	26	5	1	39	1.14		0.60	7.2	7	13	6	10	S	Fred J. Jones	
Potts	Nye	6,999	16	23.6	-3.5	46	27	-10	14	42	1.30	+0.57	0.40	13.0	7	5	11	13	S	Miss Mamie Potts	
Means				29.5							1.32			14.3	8	10	9	10	S		
Western Section.																					
Carson Dam††	Churchill	4,032	2	38.4		69	26	17	18	38	0.67		0.36	0.0	2	17	3	9	W	J. M. Heizer	
Fallon A	Churchill	3,965	4	38.6		71	25	16	13	45	0.48		0.39	T	3	7	22	0	SW	U. S. Reclamation Serv.	
Fernley ††	Lyon	4,200	1	38.2	+3.4	71	26	12	14	45	0.50	-0.04	0.45	5.4	3	14	7	8	E	U. S. Reclamation Serv.	
Gardnerville A	Douglas	4,830	9	36.4		75	25	8	2	50	1.40		0.60	14.0	3	8	14	7	SE	William Dangberg	
Leetville ‡	Churchill	4,020	2	40.7		79	27	16	15	52	0.45		0.35	1.0	2	21	7	1	SE	U. S. Reclamation Serv.	
Lewers' Ranch‡	Washoe	5,500	21	16.2	+1.9	69	26	12	13	42	1.15	-3.54	0.93	8.2	4	7	15	7		Ross Lewers	
Reno	Washoe	4,532	38	37.0	+1.4	72	26	15	13	46	0.32	-1.47	0.15	3.4	5	12	11	6	W	Central Office	
Soda Lake ‡	Churchill	4,005	2	39.4		72	25	19	18	45	0.40		0.25	0.0	3	12	4	13	SE	U. S. Reclamation Serv.	
Wabuska J	Lyon	4,347	6	34.6		69	10	8	13	45	0.62		0.60	6.0	2				NE	F. Leslie Smail	
Means				37.7							0.67			4.2	3	12	10	7	SE		
Southern Section.																					
Columbia	Esmeralda	5,750	2	37.4		76	19	10	14	55	2.31		0.90	23.1	6	17	5	7	N	Will W. Thompson	
Geyser	Lincoln		4	24.0		59	27	-5	19	56	1.80		1.50	18.0	4	6	21	2	N	J. F. Wambolt	
Jean	Lincoln	2,074	1	49.9		78	27	30	12	25	0.10		0.05	0.0	2	14	8	7	E	Agent Salt Lake Route	
Las Vegas A	Lincoln		1	41.6		78	28	14	19	55	0.09		0.07	0.0	2	17	3	9	NE	Agent Salt Lake Route	
Logan	Lincoln	1,700	2	49.9		75	28	29	15	36	1.45		0.62	0.0	5	9	10	10	N	Chas. Arney	
McAfee's Ranch*	Esmeralda	4,835	5	26.8		60	28	-5	14	48	0.60		0.40	6.0	3	14	1	14	S	G. A. McAfee	
Mina	Esmeralda	4,600	2																	Agent So. Pacific Co.	
Palmetto	Esmeralda	6,780	19	28.4	-3.5	62	25	-3	14	48	4.10	+2.42	1.60	41.0	8	12	3	14	E	Wm. Oothout, Jr.	
Tonopah	Nye	6,090	2	31.4	+3.1	53	27	11	13	19	1.04	+0.27	0.32	10.5	8	10	11	8	SE	U. S. Weather Bureau	
Means				37.8							1.56			13.2	5	12	9	8	N		
State Means and Extremes				34.6	+1.6	79	27	-10	14	56	1.07	-0.22	1.60	9.0	4	12	9	8	S		

REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station indicates the number of days missing from the record; for instance, "x" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

†Postoffice—Wells. †Postoffice—Franktown. ‡Postoffice—Amos. \*Postoffice—Dyer. †Postoffice—Fallon. \*\*Postoffice—Golconda. ††Postoffice—Hazen. ††Postoffice—Wadsworth.

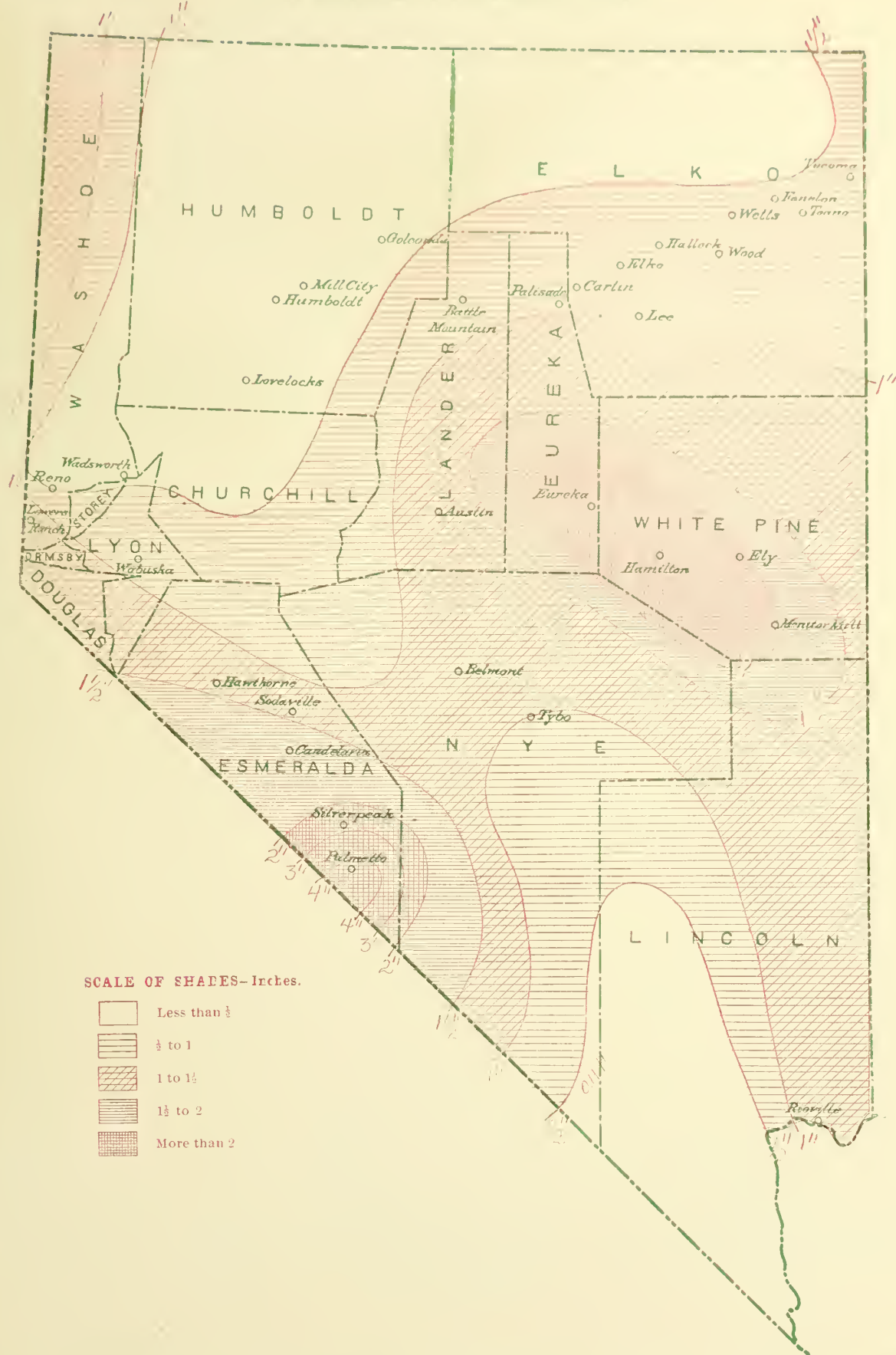


DAILY MAXIMUM AND MINIMUM TEMPERATURES FOR FEBRUARY, 1908.

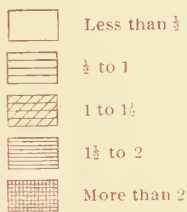
Stations.	Day of Month.																															Monthly means.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Austin.....	Max. 30	39	37	33	40	37	38	40	38	34	35	25	24	30	40	44	39	35	39	35	38	38	39	49	55	53	48	49	38			38.6	
Battle Mountain.....	Min. 18	24	34	37	23	34	36	26	32	42	38	32	36	38	34	25	28	22	24	24	31	38	31	41	32	35	31	32	20			23.3	
Carson Dam.....	Max. 24	34	37	34	36	32	32	34	36	42	38	26	28	38	24	26	26	26	26	22	28	38	32	34	48	58	44	42	40	48		38.4	
Clover Valley.....	Min. 18	24	33	24	47	47	52	45	49	43	51	41	37	44	48	47	47	47	46	45	43	40	60	67	69	67	55	49	24		49.9		
Clover Valley.....	Max. 24	35	38	39	42	37	45	43	46	44	37	33	31	37	41	46	45	45	44	44	43	49	55	53	54	58	51	51	43		43.7		
Columbia.....	Min. 3	6	28	20	18	20	21	20	27	23	17	17	3	6	9	16	25	10	9	11	11	20	23	25	26	28	32	38	25		18.3		
Columbia.....	Max. 36	43	49	44	43	40	48	49	56	49	51	49	43	43	51	52	54	62	76	56	61	50	55	56	62	61	68	57			52.4		
Eureka.....	Min. 21	22	30	39	38	40	39	45	39	38	22	18	10	14	21	20	28	25	20	28	38	42	39	47	50	53	55	45	45	42		40.9	
Eureka.....	Max. 32	40	38	38	40	39	45	39	38	38	22	18	10	14	21	20	28	25	20	28	38	42	39	47	50	53	55	45	45	42		22.5	
Fallon.....	Min. 17	22	27	17	23	28	24	26	29	25	18	14	8	4	13	22	21	18	21	18	21	28	26	25	27	25	37	22			21.0		
Fallon.....	Max. 51	46	41	48	46	49	57	55	47	52	38	39	46	4	13	21	18	21	18	21	28	32	26	25	27	25	37	22			52.1		
Fernley.....	Min. 24	28	31	20	28	28	22	28	38	32	27	22	16	20	16	18	29	16	28	23	20	34	26	26	26	26	26	26	23			25.1	
Fernley.....	Max. 35	48	43	43	50	49	53	53	51	39	48	38	42	46	49	55	42	44	43	47	52	47	59	64	67	71	65	53	49			49.8	
Gardnerville.....	Min. 23	24	20	22	24	29	25	30	31	31	26	22	12	18	22	22	19	19	25	25	20	33	39	37	37	36	40	38	24			26.7	
Gardnerville.....	Max. 36	44	40	41	50	56	55	60	44	49	46	32	39	59	57	57	46	44	43	46	47	50	62	70	75	75	61	52			21.6		
Geyser.....	Min. 19	8	24	10	15	19	29	25	27	27	15	16	12	18	18	12	15	15	21	28	32	26	25	27	25	27	37	22			40.3		
Geyser.....	Max. 36	44	40	44	48	48	40	39	34	44	38	31	31	31	31	34	39	37	42	42	37	32	34	31	44	52	55	59	46			7.6	
Golconda.....	Min. 3	6	28	20	18	20	21	20	27	23	17	17	3	6	9	16	25	10	9	11	11	20	23	25	26	28	32	38	25			55.0	
Golconda.....	Max. 32	45	49	58	48	51	54	51	54	54	58	35	37	45	49	57	54	51	52	54	50	60	65	70	66	75	70	78	67			13.6	
Hamilton.....	Min. 16	21	29	38	18	18	30	30	24	32	26	21	11	16	20	25	17	18	17	18	17	18	25	29	22	30	30	39	39	29		21.7	
Hamilton.....	Max. 19	27	27	20	24	25	19	24	19	27	19	9	-5	15	25	26	11	14	14	19	24	50	19	29	25	31	31	34	32	17			
Humboldt.....	Min. ....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
Humboldt.....	Max. ....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
Jean.....	Min. 48	48	45	52	50	52	56	60	58	45	50	48	50	50	58	58	56	59	53	55	63	58	58	68	74	72	78	68	58			56.8	
Jean.....	Max. 35	37	32	35	38	38	40	45	53	32	38	30	35	38	42	43	48	46	42	42	42	49	46	43	53	62	61	60	58	45			43.0
Las Vegas.....	Min. 55	53	54	55	60	60	60	60	60	51	66	65	66	71	60	69	64	64	64	59	66	71	60	69	74	74	74	76	78	64			62.7
Las Vegas.....	Max. 25	20	21	27	24	18	21	19	30	21	21	25	24	16	19	22	21	21	14	30	25	26	23	20	31	25	31	42	38			24.6	
Leetville.....	Min. 37	47	45	41	50	50	53	57	55	52	60	57	48	48	50	48	58	46	46	46	52	47	59	64	69	70	79	70	69			54.3	
Leetville.....	Max. 24	25	33	21	30	37	22	27	34	32	29	21	17	17	16	20	29	16	27	23	27	31	33	37	37	37	37	37	37	24			27.1
Lewers' Ranch.....	Min. 33	42	41	40	48	52	49	43	42	44	48	37	41	49	56	53	45	46	44	51	43	59	65	68	69	60	45	40			48.2		
Lewers' Ranch.....	Max. 53	52	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
Logan.....	Min. 22	20	28	23	31	29	28	26	32	27	22	14	12	17	19	25	17	22	26	26	26	26	26	26	26	26	26	26	26	24		24.3	
Logan.....	Max. 57	50	60	60	61	61	58	58	68	60	55	51	55	57	64	62	63	61	70	60	61	70	65	60	72	74	73	75	70			62.4	
Lovelocks.....	Min. 32	43	38	33	36	35	34	40	34	34	36	36	35	30	29	35	31	38	41	32	42	42	59	62	65	68	68	65	50			37.4	
Lovelocks.....	Max. ....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
McAfee's Ranch.....	Min. ....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
McAfee's Ranch.....	Max. 38	38	35	39	39	38	45	42	42	40	37	31	34	38	42	45	40	41	40	41	38	39	46	55	50	58	58	60	49			19.4	
McAfee's Ranch.....	Min. 15	24	1	1	7	9	18	22	21	1	12	5	-1	-5	2	13	3	13	12	15	12	14	12	11	12	10	23	12	20			42.7	
McGill.....	Max. 29	40	35	38	40	39	38	40	40	29	32	23	24	32	38	44	36	32	38	31	34	36	45	51	52	53	52	50				10.9	
McGill.....	Min. 6	9	25	23	26	25	24	14	23	24	19	4	8	-1	4	9	24	-1	5	7	5	11	25	12	14	12	10	23	12			38.2	
Millett.....	Max. 37	41	37	39	44	44	44	44	44	44	44	39	34	33	40	47	47	47	47	45	45	47	49	57	61	62	59	54	48			44.8	
Millett.....	Min. 5	24	29	17	11	20	24	19	33	26	15	10	8	5	6	9	29	13	21	19	13	32	31	21	23	23	34	35	27			20.1	
Mina.....	Max. ....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
Palmetto.....	Min. ....	....	....																														



TOTAL PRECIPITATION FOR FEBRUARY, 1908.



SCALE OF SHADES-Inches.





## DAILY PRECIPITATION FOR FEBRUARY, 1908.

Stations.	Day of Month.																															Total.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Northern Section.																																		
Battle Mountain			0.50								0.10					0.30																	0.90	
Beowawe																																		
Carlin																																		
Clover Valley					0.03			T			0.17	0.10				0.06					0.10							0.05	0.10	0.10		0.35	0.88	
Elko			0.20																													0.65		
Fenelon																																		
Golconda				0.25							0.05																						0.30	
Halleck			0.60													T													0.20			0.80		
Humboldt																																		
Lovelocks																																	0.01	
Mill City												0.10																	0.05		0.01	0.15	0.10	
Paradise Valley																																		
Quinn River Ranch											0.06																							
San Jacinto				0.10				T			T																						0.80	
Squaw Valley												0.20																		0.20				
Tecoma			0.40																														0.23	
Wells																																		
Winnemucca			0.06	0.04							0.01	T				T																		
Eastern Section.																																		
Hamilton	T	T	1.00				T		1.50	*	*	1.00				*	0.20				*	*	1.20										5.20	
McGill			0.11						T	0.55	0.05					*	0.12	0.02				*	0.25										1.15	
Central Section.																																		
Austin			0.50						0.15	0.08	0.05	0.10					0.05				0.10	0.05											1.30	
Eureka			0.30						0.40	0.70	0.20	0.10	T				0.05	0.10			*	0.60											2.55	
Milliet	0.02		0.15						*	0.60	0.15			0.11							T	0.11											1.14	
Potts			0.20	0.20					T	0.40	0.20						0.05				T	0.15											1.30	
Western Section.																																		
Carson Dam									0.31	0.36		T					T					T											0.67	
Fallon			T						*	0.39		T					T					0.09											0.48	
Fernley										0.45		T										0.02											0.50	
Gardnerville			0.60																		0.20	0.60											1.40	
Leetville									0.35								T				0.10												0.45	
Lewers' Ranch										0.20												0.10							*	0.93		1.15		
Reno			0.02						0.05		0.04						T				T												0.32	
Soda Lake			0.04	0.04						0.10	0.25											0.05											0.40	
Wabaska									0.60																								0.62	
Southern Section.																																		
Columbia			0.45						0.31	0.16											0.07	0.90	0.42										2.31	
Geyser										*	0.30										*	*	1.50										1.80	
Jean			0.05						0.05																								0.10	
Las Vegas									0.02	T											T												0.09	
Logan			0.62	0.10				0.05			0.30										T	T	0.38										1.45	
McAfee's Ranch			0.40						T	0.10	0.10																			T			0.60	
Mina																																		
Palmetto	T	0.20	0.40						1.60	0.40	0.20										0.60	0.40	0.30							T			4.10	
Tonopah		0.01	0.23						0.12	0.06	T										0.04	0.30	0.24								0.04		1.04	

T Indicates trace. \* Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, -  - J. G. McCARTHY, SUPT.

1908



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fact

U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR MARCH, 1908.

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NEVADA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

IN COOPERATION WITH THE

NEVADA STATE WEATHER SERVICE

---

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

---

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

HARRY O. GEREN

SECTION DIRECTOR

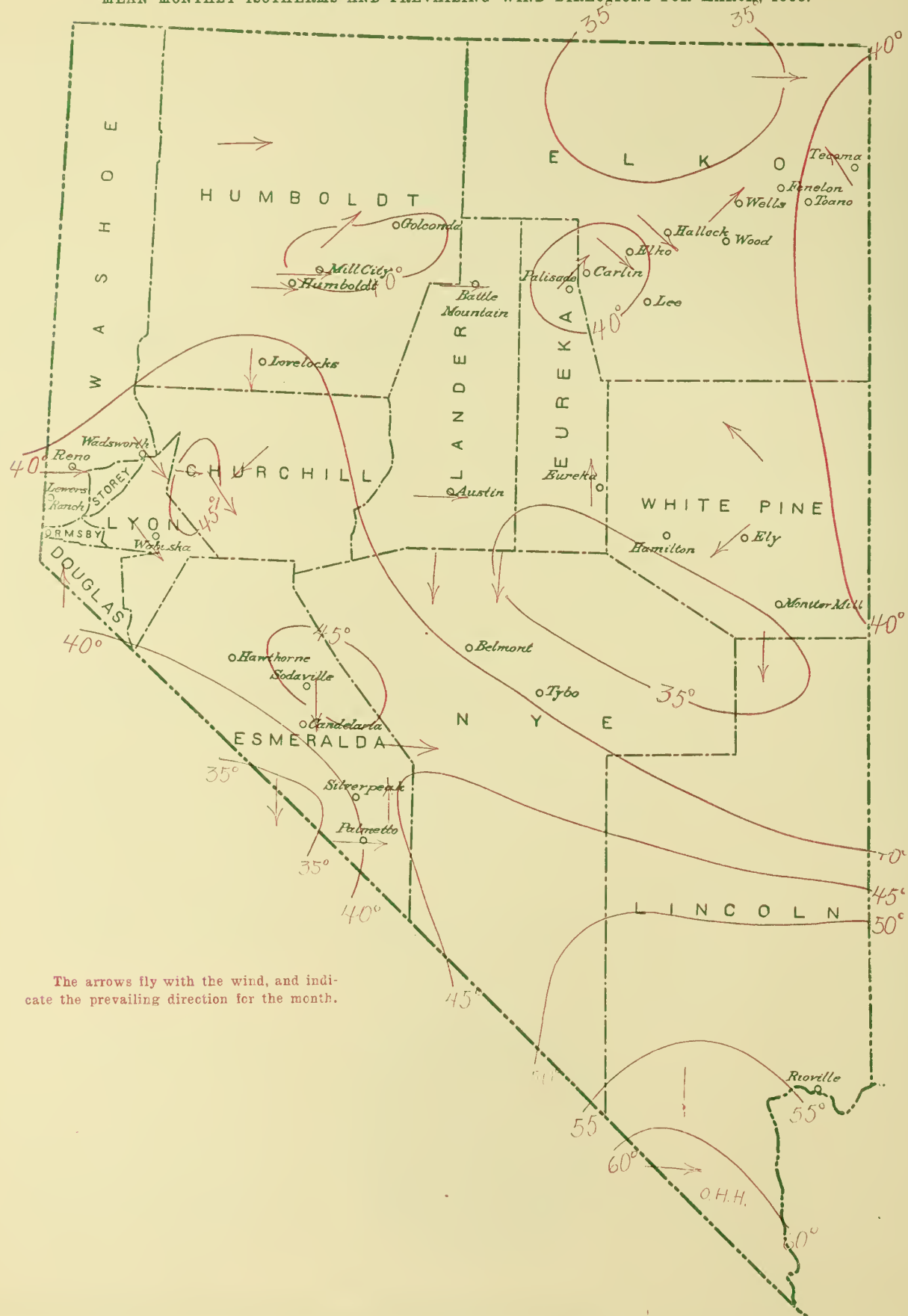


CARSON CITY, NEVADA:

April 30, 1908.



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTIONS FOR MARCH, 1908.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**

OF THE  
**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,  
 HARRY O. GEREN, Section Director.

VOL. XXII. RENO, NEVADA, MARCH, 1908. No. 3.

**GENERAL SUMMARY.**

Extremely dry weather prevailed during the month. The average precipitation for the State was the lowest on record for March and contrasts very strongly with the average of last March, which was the greatest on record. Most of the precipitation fell over the western portion of White Pine County, southwestern portion of Elko, and the greater portions of Eureka and Lander Counties. Over the remainder of the State the amounts were generally less than 0.25 inch. The dates of occurrence were from the 1st to the 6th, inclusive, especially the 4th and 5th, and on the 26th, 27th, 30th, and 31st. The snowfall during the month was very light.

The mean temperature for the State was the fourth highest on record. The highest temperature reported, 91° at Las Vegas on the 17th, was the highest ever recorded in March. The temperatures over the northern half of the State averaged slightly below the normal; over the southern half they were considerably above it. The highest temperatures were mostly above 65°, and were recorded from the 14th to the 17th, inclusive, most of them occurring on the 16th. The lowest were generally below 20°, and were nearly all registered on the 6th and 7th.

**Temperature.**

The mean temperature for the State was 40.7°, which is 2.0° higher than the normal for the month, and 2.4° higher than the mean for the corresponding month of 1907. The highest monthly mean temperature was 61.8°, at Jean, Lincoln County; the lowest was 32.9°, at Potts, Nye County. The highest temperature was 91°, at Las Vegas, Lincoln County, on the 17th, and the lowest was 6° below zero, at Palmetto, Esmeralda County, on the 7th. The greatest daily range was 62°, at Millett, Nye County, on the 20th.

**Precipitation.**

The average amount for the State was 0.30 inch, which is 1.05 inches less than the normal for the month, and 2.36 inches less than the average for the corresponding month of 1907. The greatest monthly amount was 1.95 inches, at Eureka, Eureka County, while there was none at all at Humboldt and Mill City, in Humboldt County, and at Soda Lake, Churchill County, and Mina, Esmeralda County. The greatest amount recorded in twenty-four hours was 1.20 inches at Austin, Lander County, on the 5th. The average number of days with 0.01 inch or more of precipitation was 2.

**Wind.**

The prevailing direction was west. The average hourly velocity at Reno was 6.4 miles; at Tonopah it was 9.5 miles, and at Winnemucca it was 7.7 miles. The maximum velocity

for a period of five minutes at Reno was at the rate of 27 miles per hour, southwest, on the 30th; at Tonopah it was 47 miles per hour, northwest, on the 21st, and at Winnemucca it was 43 miles per hour, southwest, on the 24th.

**Sunshine and Cloudiness.**

The average number of clear days was 16, partly cloudy days 10, and cloudy days 5.

**MISCELLANEOUS PHENOMENA.**

*Fog*—Austin, 29th; Tonopah, 6th.

*Gales*—Tonopah, 21st; Winnemucca, 24th.

*Hail*—Cherry Creek, 30th.

*Halos, Lunar*—Eureka, 11th; Reno, 10th, 12th, 15th, 24th; Tonopah, 13th, 14th.

*Halos, Solar*—Reno, 10th.

*High Winds*—Cherry Creek, 17th, 21st, 24th, 25th, 26th, 27th, 28th, 30th, 31st; Clover Valley, 1st, 2d, 5th, 14th, 16th, 20th, 21st, 22d, 25th, 26th, 27th, 30th, 31st; Columbia, 1st, 3d, 4th, 6th, 17th, 21st, 24th, 25th, 27th, 30th, 31st; Fallon, 1st, 3d, 16th, 27th, 31st; Gardnerville, 25th, 29th, 30th; Halleck, 17th, 31st; Las Vegas, 1st, 2d, 20th, 22d, 23d, 24th, 25th, 26th, 27th, 29th, 30th, 31st; Lovelock, 18th, 29th, 30th; Palmetto, 6th, 21st, 25th; Potts, 1st, 4th, 5th, 16th, 21st, 24th, 25th, 26th, 30th; Reno, 25th, 26th, 30th; Wabuska, 25th, 26th.

*Sandstorms*—Fallon, 25th, 30th; Jean, 21st, 30th; Leetville, 29th; Mill City, 29th, 30th.

*Sleet*—Cherry Creek, 26th, 27th; Las Vegas, 6th.

**LATE REPORTS.**

Mina, February, 1908—Mean temperature, 35.2°; highest, 53°, on the 13th; lowest, 24°, on the 18th. Total precipitation, 0.70 inch; greatest amount in twenty-four hours, 0.70 inch, on the 9th-10th.

Wells, February, 1908—Mean temperature, 33.1°; highest, 57°, on the 28th; lowest, 12°, on the 1st.

**COMPARATIVE STATE DATA FOR MARCH.**

Year.	Temperature.			Average precipitation.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1889	44.1	85	12	1.45	6	12	13	6	s
1890	39.0	82	-15	1.71	11	13	9	9	s
1891	38.9	78	2	1.55	6	6	16	9	sw
1892	40.3	78	-2	1.81	8	9	14	8	w
1893	35.9	85	-21	1.90	7	8	14	9	s
1894	38.4	88	-13	1.02	5	7	12	12	sw
1895	27.7	80	-23	0.82	4	14	9	8	w
1896	39.4	90	-18	1.15	7	10	9	12	w
1897	31.5	80	-19	1.36	10	9	9	13	sw
1898	35.0	79	-10	0.63	4	14	9	8	w
1899	38.6	79	4	1.83	7	9	8	14	sw
1900	44.2	81	3	0.51	3	17	5	9	sw
1901	38.9	90	0	0.59	4	15	7	9	w
1902	35.2	69	0	1.47	6	11	8	12	sw
1903	38.7	90	-8	1.41	5	12	7	12	s
1904	39.7	80	0	1.69	8	8	8	15	sw
1905	41.8	82	3	1.43	6	12	6	13	sw
1906	38.5	83	-15	1.68	7	10	9	12	w
1907	38.3	83	-10	2.66	8	6	10	15	s
1908	40.7	91	-6	0.30	2	16	10	5	w
Entire period	38.7	91	-23	1.35	6	11	10	10	sw



## SNOWFALL IN THE MOUNTAINS.

The weather during March was generally warm and sunny. There was very little snowfall, and while the weather conditions were not especially conducive to the preservation of that already accumulated, the prospects at the end of the month were for a sufficient supply of irrigation water at most places. It is quite probable that the supply of water will not equal the usual amount, and will certainly be considerably less than the flow of last season. It is well in making comparisons with last season to bear in mind the fact that the flow then was unusually large. A conservative estimate places the amount of snow in the mountains, at the end of March, at about two-thirds of that at the corresponding date last year. In the Humboldt, Walker, and Reese River drainage areas the outlook is more favorable than in the Truckee and Carson basins; in the former the supply of water may approach ninety per cent of the average; in the latter it will likely be in the neighborhood of eighty per cent. These figures are only roughly approximate, and altho the weather during the next few weeks can alter them a little, it is not likely to do so materially.

## CORRESPONDENTS' REMARKS.

### Humboldt River Drainage.

**Charleston**—The snow disappeared quickly and while the ground was still frozen, so that but little moisture was absorbed. I do not believe that the flow of water will be more than one-half as great as last season. CHAS. E. PEARSON.

**Clover Valley**—On account of the unusually dry weather during March the amount of snow has been reduced below the average, but I believe that a sufficient supply of water is still assured. I. F. WISEMAN.

**Halleck**—The snowfall seems light this year. The water-flow will probably be much less than that of last year. G. C. RANDALL.

**Paradise Valley**—There is not one-eighth as much snow in the mountains as there was last year, and the amount is very small as compared with the average of the last four or five years. The outlook is for very little water this year. J. D. BRADSHAW.

**Rebel Creek**—Judging from present conditions, there will be less water this year than for many years. There are only a few scattered banks of snow near the summits of the mountains. R. McLERAN.

**Tuscarora**—March has been dry and windy. The amount of snow is about two-thirds as great as the average. I think that the flow of water will be about half as large as that of last season. W. I. PLUMB.

**Wells**—There has been practically no snow since last report. I think that there will be sufficient water for crops. H. BADT.

**Winnemucca**—The supply of water this season will be about one-half that of the unusually large flow of last year. While the water supply this season will be deficient, it is thought that the ground is well saturated, due to the high stage of the water all winter. U. S. WEATHER BUREAU OFFICE.

### Truckee River Drainage.

**Floriston**—The water-flow will be less this year, as the amount of snow is less than it was last year. W. E. CHUBBUCK.

**Glenbrook**—At the present time the probabilities are for only half as much water as we had last year. A. C. McCLEARY.

**Hobart Mills**—The snow in the mountains at the end of March was much less than the usual amount, and only about one-half as large as last year. It is not likely that the supply of water will be more than two-thirds as great as that of last season. S. E. PATTERSON.

**Tahoe**—The amount of snow in the mountains is very much less than at the end of March last year. I would estimate the water-flow during the coming season at about one-third what it was last year. A. J. ROTHER.

**Truckee**—The season's snowfall in the mountain ranges here has been much less than it was to the corresponding date last year, and is less than the usual amount. The flow of water will probably be much less. F. M. RUTHERFORD.

**Wadsworth**—The water-flow during the coming season will be less than that of last year. MRS. A. J. RANKIN.

### Carson River Drainage.

**Dayton**—From present indications the supply of water this year will be less than it was last season. The amount of snow in the mountains is much less than the ten-year average. THOS. P. MACK.

### Walker River Drainage.

**Bodie**—The average depth of snow near the summits of the mountains is probably between fifteen and twenty feet, which is a little less than the average. I think that the supply of water will be much less than it was last year. AL. TAYLOR.

**Bridgeport**—The amount of the season's snowfall is much smaller than the average. There have been no storms during the month. GEO. A. MONTROSE.

**Mason Valley**—The water-flow from this locality will be very much less than it was last season, but will probably be sufficient for irrigation purposes. J. G. YOUNG.

**Smith**—There has been no snowfall at all during March, while the snow in the foothills has disappeared very rapidly, owing to so much wind. I think that there will be plenty of water for irrigation, but it will be much less than it was last year. C. M. CARTER.

**Sweetwater**—There will be no shortness of water, as there is plenty of snow to supply the demand. The accumulated snow is about equal to the average amount, but is less than that of last year. W. H. ROACH.

### Reese River Drainage.

**Berlin**—The snowfall of the past season assures ample moisture for grazing purposes. The snow is from two to four feet deep on the northern slopes of the mountains. G. B. HISKEN.

**Eureka**—I think that the amount of snow is less than usual. The water-flow will probably be less than it was last season. CLAY SIMMS.

TABLE OF SNOWFALL.

Station.	County.	Compared with average.	On ground March 31, 1908.	
			At station.	At or near summit of mountains.
			Inches.	Inches.
<i>Humboldt River Drainage:</i>				
Beowawe.....	Lander .....	Average	0	36
Carlin.....	Elko.....	Average	0	60
Charleston.....	Elko.....	Less	0	6
Clover Valley.....	Elko.....	Less	0	125
Halleck.....	Elko.....	Average	0	18
Lamoille.....	Elko.....	Average	0	60
Paradise Valley.....	Humboldt.....	Less	0	12
Rebel Creek.....	Humboldt.....	Less	0	6
Tuscarora.....	Elko.....	Less	0	24
Wells.....	Elko.....	Average	0	100
Winnemucca.....	Humboldt.....	Less	0	20
<i>Truckee River Drainage:</i>				
Boca, Cal.....	Nevada.....			
Donner, Cal.....	Nevada.....	Less	12	100
Floriston, Cal.....	Nevada.....	Less	0	70
Glenbrook.....	Douglas.....	Less	8	24
Hobart Mills, Cal.....	Nevada.....	Less	3	36
Marmol.....	Washoe.....	Less	0	80
Tahoe, Cal.....	Placer.....	Less	20	60
Truckee, Cal.....	Nevada.....	Less	12	48
Wadsworth.....	Washoe.....	Less	0	0
<i>Carson River Drainage:</i>				
Dayton.....	Lyon.....	Less	0	2
Markleeville, Cal.....	Alpine.....			
Woodfords, Cal.....	Alpine.....	Less	0	60
<i>Walker River Drainage:</i>				
Bodie, Cal.....	Mono.....	Less	12	210
Bridgeport, Cal.....	Mono.....	Less	0	220
Mason Valley.....	Lyon.....	Less	0	60
Pinchgrove.....	Esmeralda.....	Less	10	36
Schurz.....	Esmeralda.....			
Smith.....	Lyon.....	Average	0	60
Sweetwater.....	Esmeralda.....	Average	0	36
Topaz, Cal.....	Mono.....			
<i>Reese River Drainage:</i>				
Austin.....	Lander.....	Average	0	
Berlin.....	Nye.....	Average	0	16
Eureka.....	Eureka.....	Less	5	9
Galena.....	Lander.....			



## CLIMATOLOGICAL DATA FOR MARCH, 1908.

		Temperature (degrees Fahrenheit)										Precipitation (inches)													
Stations	Counties.	Elevation (feet)	Length of record (years)	Mean.	Departure from the normal	Highest.	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours.	Total snowfall in depth (feet)	Number rainy days.	Number clear days	Number partly cloudy days.	Number cloudy days	Prevailing direction and velocity.	Observers.					
Northern Section.																									
Battle Mountain	Lander	4,511	38	39.1	-2.1	66	17	16	6	21	0.01	-0.70	0.02	0.4	2	12	13	6	W	Agent So. Pacific Co.					
Beowawe-3	Eureka	4,695	38	41.2	0.0	60	17	18	6	27	0.51	-0.12	0.50	5.4	4	15	0	16	SW	Agent So. Pacific Co.					
Carlin-3	Elko	1,897	38	34.4	-1.1	54	28	12	31	30						15	7	9		I. F. Wiseman					
Clover Valley†	Elko	6,000	9	38.8		71	16	11	6	15	0.63		0.35	3.0	5	8	13	10		Agent So. Pacific Co.					
Elko-3	Elko	5,063	38	41.2	+4.8	65	15	20	24	25	0.65	-0.55	0.30	6.5	5	5	16	10	SW	Agent So. Pacific Co.					
Fenelon	Elko	6,128	21			80	16	11	7	19	0.25	-0.31	0.25	0.0	1	19	0	12	W	Agent So. Pacific Co.					
Golconda A	Humboldt	4,392	30	42.9	+0.4	64	15	5	6	41	0.45	-0.36	0.40	4.5	2	6	22	3	NW	Agent So. Pacific Co.					
Halleck-3	Elko	5,229	36	35.2	-0.7	64	15	15	19	36	0.90	0.60	0.00	0.0	0	6	24	1	W	Agent So. Pacific Co.					
Humboldt	Humboldt	4,236	37	38.7	-2.9	66	15	15	7	58	0.08	-0.19	0.08	T	1	22	7	2	N	G. S. Webb					
Lovelocks B	Humboldt	3,977	16	40.8	-2.7	76	15	5	7																
Mill City-3	Humboldt	4,225	20	40.5	-0.3	70	15	18	7	40	0.00	-0.62	0.00	0.0	0	15	16	0	W	Agent So. Pacific Co.					
Quinn River Ranch	Humboldt	4,850	7	38.1		75	16	7	6	60	0.03		0.03	0.0	1	13	8	10	W	F. M. Payne					
San Jacinto K	Elko		4	34.3		67	16	2	6	39									W	Moses Jones					
Squaw Valley**-2	Elko	5,100	2								0.20	-0.32	0.20	2.0	1	13	4	14	SE	Chas. D. Dorsey					
Tecoma	Elko	4,812	31	42.4	+4.2	68	21	11	6	48	0.20	-0.32	0.20	2.0	1	13	4	14	SE	Agent So. Pacific Co.					
Wells	Elko	5,623	37	36.6	+0.4	62	24	18	30	18	0.02	-1.05	0.02	0.0	1	21	5	5	SW	Agent So. Pacific Co.					
Winnemucca	Humboldt	4,432	30	38.7	-0.9	75	15	9	7	50	0.25	-0.70	0.13	1.2	5	15	11	5	SW	U. S. Weather Bureau					
	Means			38.7							0.21			1.5	2	13	11	7	W						
Eastern Section.																									
Cherry Creek J	White Pine		0	35.2		67	16	0	7	48									SE	J. H. Leishman					
Ely B	White Pine	6,000	18	39.3	+6.4	74	13	7	6	47	0.23	-1.48	0.10	3.6	3	16	9	6	NE	G. C. Hunting					
Hamilton	White Pine	7,977	2																	Geo. Allen					
	Means			37.2							0.23			3.6	3	16	9	6	SE						
Central Section.																									
Austin C	Lander	6,594	20	37.9	+2.8	65	16	10	7	29	1.55	+0.15	1.20	15.5	3	24	4	3	W	F. H. Triplett					
Eureka	Eureka	6,500	6	36.8		71	16	4	6	40	1.95		0.70	20.2	6	10	14	7	S	Clay Simms					
Millet	Nye		1	39.4		75	16	8	7	62	0.05		0.05	0.0	1	20	8	3	N	Fred J. Jones					
Potts	Nye	6,990	16	32.9	0.0	61	16	-2	7	42	0.05	-0.94	0.05	1.0	1	7	16	8	N	Miss Mamie Potts					
	Means			36.8							0.90			9.2	3	15	11	5	N						
Western Section.																									
Carson Dam††	Churchill	4,032	2			78	14	15	7	50	0.02		0.02	0.3	1	19	12	0	NW	J. M. Heizer					
Fallon A	Churchill	3,965	4	42.6		81	16	17	9	49	T	-0.31	T	T	0	23	5	3	NW	U. S. Reclamation Serv.					
Fernley ††	Lyon	4,200	1	44.0	-1.0	81	17	15	7	49	0.40		0.40	4.0	1	14	10	7	S	William Dangberg					
Gardnerville A	Douglas	4,830	9	42.8		85	24	15	6	52	T		T	0.0	0	28	3	0	W	U. S. Reclamation Serv.					
Leetville ††	Churchill	4,020	2	45.6																					
Lewers' Ranch‡	Washoe	5,500	21	43.2	+3.6	76	16	9	7	48	0.50	-3.41	0.50	3.0	2	14	6	11	W	Ross Lewers					
Reno	Washoe	4,532	38	41.2	+0.2	75	16	15	7	44	0.26	-0.96	0.13	3.8	2	15	15	1	W	Section Center					
Soda Lake ††	Churchill	4,005	2	44.6		81	16	15	6	53	0.00		0.00	0.0	0	16	13	2	NE	U. S. Reclamation Serv.					
Wabuska R	Lyon	4,347	6	41.2		74	20	12	28	59									NW	F. Leslie Small					
	Means			43.2							0.17			1.6	1	18	9	4	NW						
Southern Section.																									
Columbia	Esmeralda	5,750	2	45.8		78	14	2	7	55	0.45		0.45	4.5	1	24	4	3	S	Will W. Thompson					
Geyser	Lincoln		4	33.4		72	14	0	7	59	0.40		0.40	4.0	1	17	11	3	N	Mrs. J. F. Wambolt					
Jean	Lincoln	2,074	1	61.8		88	16	35	6	18	0.20		0.20	0.0	1	21	4	6	W	Agent Salt Lake Route					
Las Vegas	Lincoln	2,033	1	56.2		91	17	27	27	54	0.02		0.02	T	1	20	9	2	N	Agent Salt Lake Route					
Logan	Lincoln	1,700	2																	Chas. Arney					
McAfee's Ranch*	Esmeralda	4,835	5	34.0		71	17	4	7	55	0.20		0.20	2.0	1	22	2	7	N	W. T. Carter					
Mina A	Esmeralda	4,600	2	48.1		69	20	25	8	37	0.00		0.00	0.0	0				N	Agent So. Pacific Co.					
Palmetto	Esmeralda	6,780	19	37.2	+0.7	74	16	-6	7	46	0.40	-1.83	0.20	4.0	2	23	5	3	W	Wm. Oothout, Jr.					
Tonopah	Nye	6,090	2	40.9	+5.5	68	16	15	7	30	0.22	-1.15	0.20	3.0	2	19	11	1	W	U. S. Weather Bureau					
	Means			44.7							0.21			1.9	1	21	6	4	N						
State Means and Extremes.				40.7	+2.0	91	17	-6	7	62	0.30	-1.05	1.20	2.8	2	16	10	5	W						

REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station indicates the number of days missing from the record; for instance, "S" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

†Postoffice—Wells. †Postoffice—Franktown. †Postoffice—Amos. \*Postoffice—Dyer †Postoffice—Fallon. \*\*Postoffice—Golconda. ††Postoffice—Hazen. ††Postoffice—Wadsworth.

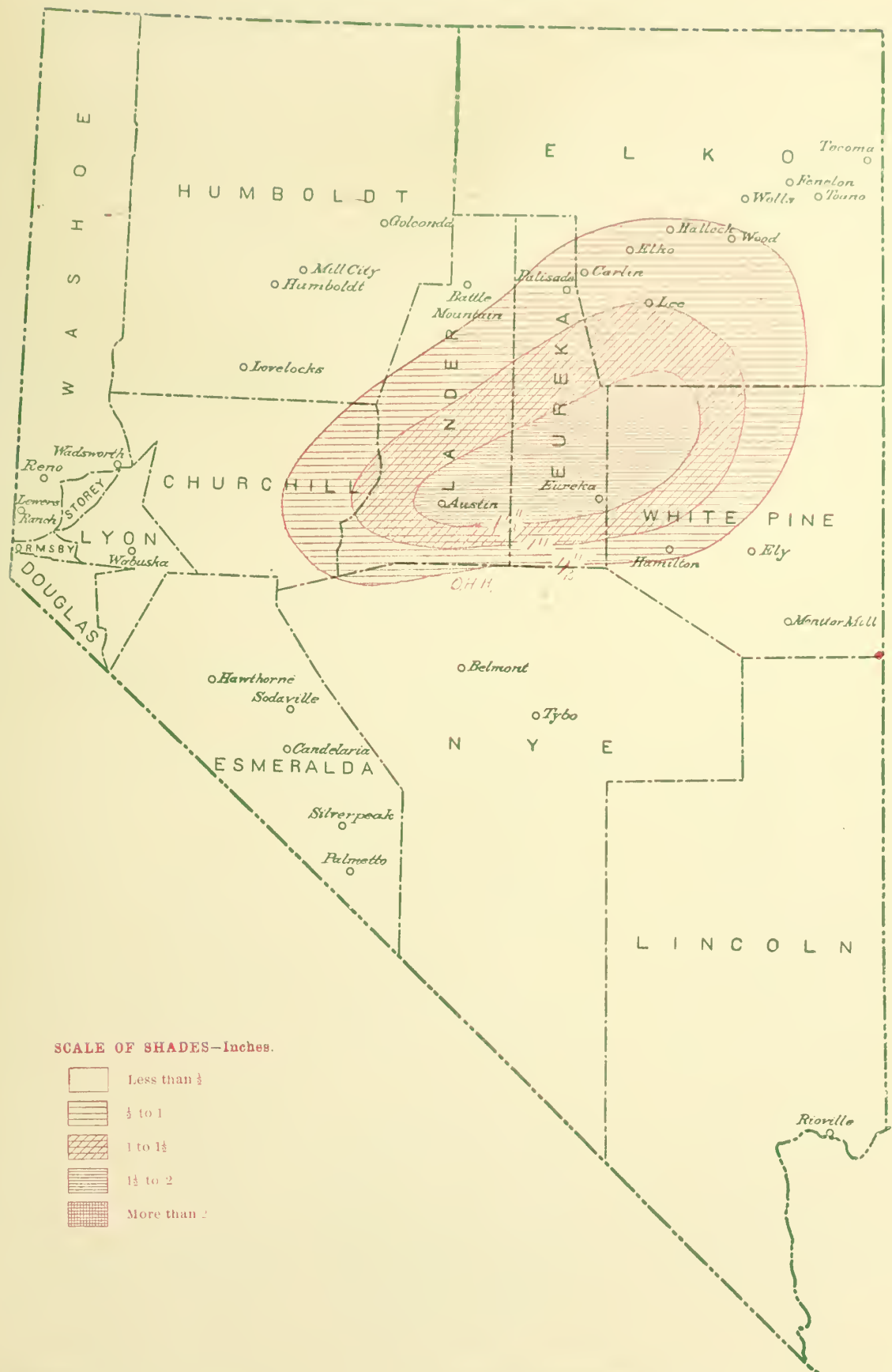


DAILY MAXIMUM AND MINIMUM TEMPERATURES FOR MARCH, 1908.

[illegible]



# TOTAL PRECIPITATION FOR MARCH, 1908.





## DAILY PRECIPITATION FOR MARCH, 1908.

Stations.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Northern Section.																																	
Battle Mountain																																	
Beowawe				*	0.50																												
Carlin																																	
Clover Valley	0.10			0.05																								0.02			0.02		0.04
Elko	0.05			0.30	0.10																							0.02					0.54
Fenelon																																	
Golconda																																	
Halleck																																	
Humboldt																																	
Lovelocks																																	
Mill City																																	
Paradise Valley																																	
Quinn River Ranch																																	
San Jacinto																																	
Squaw Valley																																	
Tecoma	0.20																																
Wells																																	
Winnemucca		0.03	0.04		0.01																												
Eastern Section.																																	
Cherry Creek																																	
Ely																																	
Hamilton						0.10																											
Central Section.																																	
Austin	T				0.05	1.20																											1.55
Eureka	0.02				0.05	0.70																											1.95
Millett																																	0.05
Potts						0.05																											0.05
Western Section.																																	
Carson Dam																																	
Fallon																																	
Fernley																																	
Gardnerville	0.40																																
Leetville																																	
Lewers' Ranch																																	
Reno																																	
Soda Lake	0.13																																
Wabuska																																	
Southern Section.																																	
Columbia																																	
Geyser																																	
Jean			*	0.40																													0.45
Las Vegas				0.20																													0.40
Logan																																	0.20
McAfee's Ranch																																	0.00
Mina																																	0.40
Palmetto																																	0.00
Tonopah																																	0.22

T indicates trace. \* Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, - J. G. McCARTHY, SUPT.



1908



51.05  
4442  
ack

U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR APRIL, 1908.

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NEVADA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

IN COOPERATION WITH THE

NEVADA STATE WEATHER SERVICE

---

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

---

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

HARRY O. GEREN

SECTION DIRECTOR

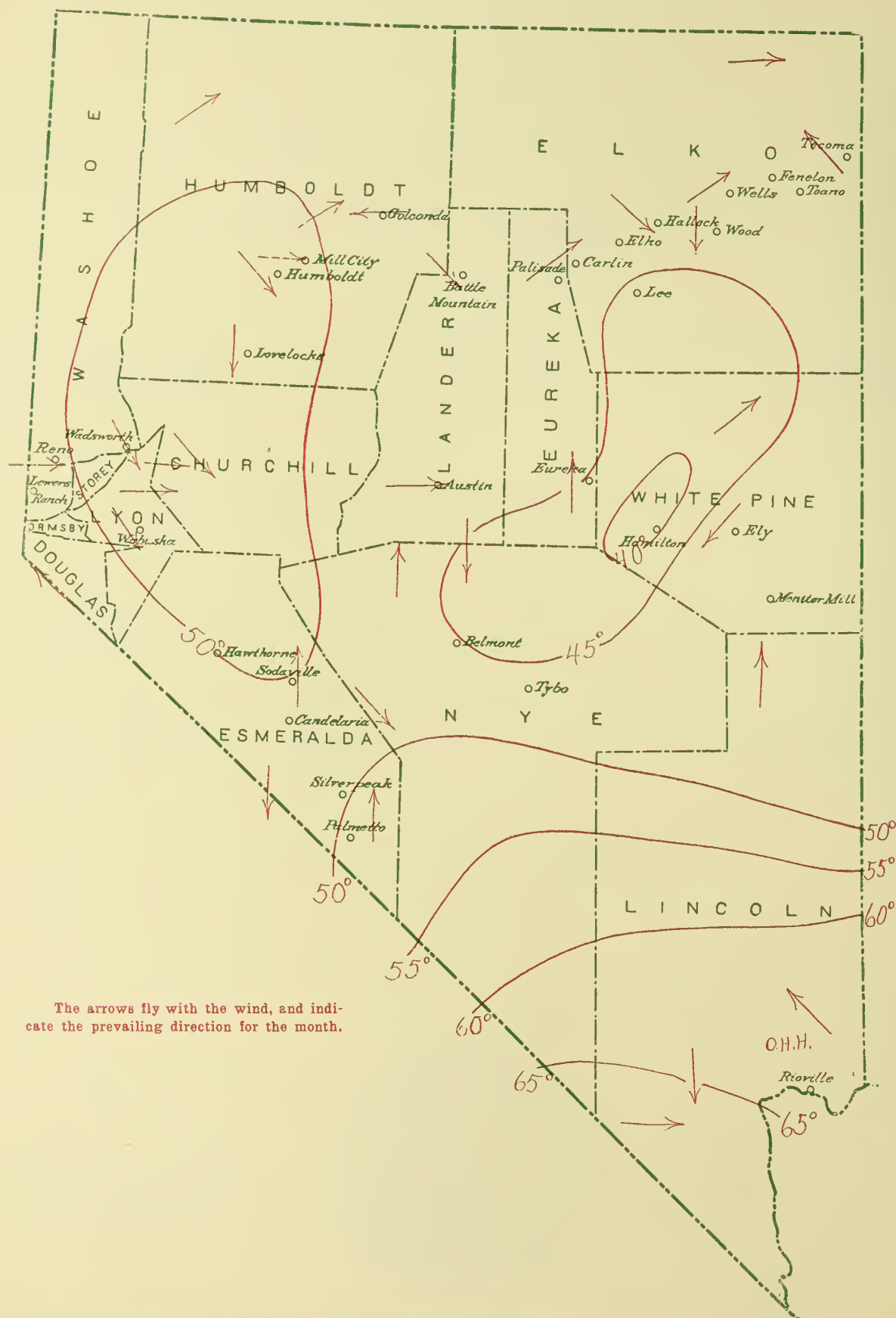


CARSON CITY, NEVADA:

June 6, 1908.



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTION FOR APRIL, 1908.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**  
 OF THE  
**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,  
 HARRY O. GEREN, Section Director.

VOL. XXII. RENO, NEVADA, APRIL, 1908. No. 4.

**GENERAL SUMMARY.**

This was the driest April on record, the weather being a continuation of that prevailing during March, the average precipitation of which was also the lowest on record for that month. The greater portion of the precipitation fell over Eureka and Lander Counties, the southwestern portion of Elko County, and the eastern portions of Humboldt and Churchill Counties. The monthly amounts over the remainder of the State were generally less than 0.25 inch. Over the northern portion it occurred mostly on the 14th, 15th, 21st, and 22d, and over the southern half at scattered stations on the 7th, 14th, 15th, and 22d. There was snow at a few stations of high altitude on the 6th, 7th, 22d, 23d, and 24th.

The mean temperature for the State was the highest on record for April, with but two exceptions—1889 and 1898; the mean for last April just equaled that of this month. The month started with temperatures below normal, the minimum temperatures for the month being recorded during the first few days, generally on the 1st, over most of the State. It warmed up gradually until about the 5th, when a cool period started which culminated on the 7th, the lowest temperature for the month for some of the northern stations being recorded on that date. The temperature then rose and remained above the normal from the 9th to the 21st, inclusive, most of the monthly maximums being registered on the 12th, 13th, and 19th. After the 19th there were several small fluctuations above and below the normal, the month closing with warm weather.

**Temperature.**

The mean temperature for the State was 50.1°, which is 3.0° higher than the normal for the month, and equals the mean for the corresponding month of 1907. The highest monthly mean temperature was 69.2°, at Jean, Lincoln County; the lowest was 38.8°, at Hamilton, White Pine County. The highest temperature was 91°, at Las Vegas, on the 13th, and Logan, on the 18th and 19th, both stations being in Lincoln County. The lowest was 4°, at Quinn River Ranch, Humboldt County, on the 1st. The greatest daily range was 66°, at Geyser, Lincoln County, on the 11th.

**Precipitation.**

The average amount for the State was 0.33 inch, which is

0.11 inch less than the normal for the month, and 0.25 inch less than the average for the corresponding month of 1907.

The greatest monthly amount was 1.75 inches, at Battle Mountain, Lander County, while there was none at all at Gardnerville, Douglas County, and Jean, Lincoln County. The greatest amount recorded in twenty-four hours was 0.75 inch, at Battle Mountain, Lander County, on the 15th. The average number of days with 0.01 inch or more of precipitation was 2.

**Wind.**

The prevailing direction was west. The average hourly velocity at Reno was 6.8 miles; at Tonopah it was 9.9 miles, and at Winnemucca it was 6.6 miles. The maximum velocity for a period of five minutes at Reno was at the rate of 25 miles per hour, west, on the 22d; at Tonopah it was 40 miles per hour, northwest, on the 6th, and at Winnemucca it was 29 miles per hour, southwest, on the 23d.

**Sunshine and Cloudiness.**

The average number of clear days was 18, partly cloudy days 7, and cloudy days 5.

**COMPARATIVE STATE DATA FOR APRIL.**

Year.	Temperature.			Average precipita- tion.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1889 .....	53.5	100	16	0.45	2	15	10	5	sw
1890 .....	49.0	96	8	0.72	5	18	9	4	s
1891 .....	48.3	88	5	1.51	5	7	16	7	s
1892 .....	44.3	84	6	0.62	4	8	16	6	w
1893 .....	42.3	78	0	1.14	6	8	12	10	sw
1894 .....	47.6	90	10	0.59	4	14	10	6	sw
1895 .....	48.2	95	1	0.42	2	16	7	7	w
1896 .....	41.7	89	0	1.00	5	9	7	14	sw
1897 .....	47.3	91	9	0.37	2	20	10	0	sw
1898 .....	51.1	103	12	0.71	2	17	7	6	w
1899 .....	47.9	87	12	0.37	12	15	8	7	w
1900 .....	43.8	82	10	1.98	7	6	7	17	w
1901 .....	45.3	98	2	0.59	3	15	6	9	sw
1902 .....	45.8	84	14	0.75	3	11	9	10	sw
1903 .....	45.2	101	1	0.47	2	17	6	7	sw
1904 .....	45.4	97	10	0.66	3	15	7	8	sw
1905 .....	47.0	85	10	0.84	4	14	7	9	sw
1906 .....	47.6	90	9	1.30	5	13	7	10	w
1907 .....	50.1	94	12	0.58	3	14	9	7	w
1908 .....	50.1	91	4	0.33	2	18	7	5	w
Entire period .....	47.1	103	-2	0.77	4	13	9	8	sw

**MISCELLANEOUS PHENOMENA.**

*Duststorms*—Eureka, 14th; Jean, 6th; Mill City, 6th, 7th; Panaca, 28th.

*Hail*—Austin, 14th, 22d; Carlin, 16th; Carson Dam, 22d.

*Halos, Lunar*—Reno, 9th, 12th.

*Halos, Solar*—Eureka, 13th; Millett, 13th.

*High Winds*—Austin, 21st; Battle Mountain, 6th; Beowawe, 7th; Carson Dam, 22d, 23d; Cherry Creek, 2d, 6th, 7th, 8th; Clover Valley, 6th, 21st, 24th, 25th, 26th, 27th, 28th; Columbia, 1st, 5th, 6th, 13th, 14th, 19th, 23d, 27th; Eureka,



21st; Fallon, 6th, 7th; Gardnerville, 20th; Halleck, 7th, 8th, 24th; Las Vegas, 1st, 2d, 6th, 7th, 24th; Logan, 6th, 27th; Millett, 7th, 21st; Pots, 5th, 6th, 7th, 12th, 13th, 14th, 15th, 19th, 20th, 22d; Reno, 19th, 22d, 23d; San Jacinto, 27th, 28th; Tonopah, 6th; Winnemucca, 23d.

*Sleet*—Fenley, 6th.

*Thunderstorms*—Austin, 14th; Clover Valley, 22d; Millett, 14th; Reno, 14th.

#### LATE REPORTS.

Hamilton, March, 1908—The total precipitation was 2.40 inches, the greatest amount in twenty-four hours was 1.20 inches, and the total snowfall for the month, 24.0 inches. The number of days with 0.01 inch or more of precipitation was 6; clear days 22, partly cloudy days 1, and cloudy days 8. The prevailing direction of the wind was north.

Logan, March, 1908—The mean temperature was 56.4°. The highest was 87°, on the 17th and 18th, and the lowest, 30°, on the 8th. The greatest daily range was 45°. The total precipitation was 0.70 inch, the greatest in twenty-four hours, 0.66 inch, and the snowfall was zero. There were two days with 0.01 inch or more of precipitation, fourteen clear days, thirteen partly cloudy days, and four cloudy ones. The prevailing wind was north.

#### CLIMATOLOGY OF MILL CITY, NEVADA.

Mill City is situated in the central portion of Humboldt County, in latitude 40° 46' north, and longitude, 118° 4' west. The elevation of the station, which has always been at the depot of the Southern Pacific Company, is 4,391 feet. The immediate neighborhood is rather level, but there are mountains from three to ten miles distant. The temperature record is based on readings made at 7 a. m., 2 p. m., and 9 p. m. The record, which is twenty years in length, has numerous breaks in it, but it has been possible to interpolate the values for most of the missing months in the temperature record from the record at Humboldt, eleven miles distant.

The warmest month, July, has a normal temperature of 75.8°, while the coldest month, January, has a normal of 29.4°. The highest monthly mean temperature occurred in 1906, July of that year having a mean of 81.3°; the lowest was in February, 1903, the monthly mean for which was 17.0°. This, however, is an interpolated value, and while it is probably very nearly correct, it may be better to accept the mean of 20.6° in December, 1905, as the lowest monthly average. The coolest July was in 1895, when the mean was 71.0°, and the warmest January was in 1905, with a mean of 35.8°. The highest temperature observed was 116°, on July 29, 1889, and the lowest was 28° below zero, on January 9, 1890, giving a range of 144° for this station during the twenty years on record.

The monthly amounts of precipitation average about the same from December to May, inclusive, excepting April, which seems to be rather dry. The season from June to September, inclusive, is very dry. Of the months of June on record, 69 per cent have had no appreciable amount of rain. Likewise, July has lacked precipitation in 82 per cent of the instances, and August 63 per cent. Periods varying in length from two to four months without rain have occurred in nearly every year.

The following tables show the record as completely as possible:

#### Monthly and Annual Precipitation.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1888	.....	0.46	0.26	0.26	1.81	0.42	.....	0.52	0.50	.....	.....	0.85	.....
1889	0.00	0.00	0.49	0.60	1.28	.....	0.00	0.00	0.00	0.60	0.08	4.53	.....
1890	4.80	.....	3.15	.....	.....	.....	0.00	0.73	1.00	0.00	0.00	0.99	.....
1891	T	0.99	T	1.81	.....	.....	.....	.....	.....	.....	.....	.....	.....
1892	0.30	0.15	0.10	0.69	.....	0.00	T	0.00	T	0.10	0.30	T	.....
1893	1.20	0.41	.....	.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	.....
1894	0.20	0.80	0.00	0.30	0.00	0.00	0.00	0.20	0.20	0.00	0.00	0.40	2.10
1895	0.55	0.45	0.20	0.10	0.90	0.00	T	0.00	0.10	T	.....	0.15	2.45
1896	0.60	0.10	0.75	0.40	0.00	0.00	0.80	0.00	0.00	0.30	0.70	0.02	3.67
1897	0.40	1.26	0.18	0.00	0.00	0.20	0.00	0.00	0.00	0.40	0.00	0.38	2.82
1898	0.30	0.00	0.27	0.00	1.70	0.00	0.00	0.00	0.30	0.00	0.41	0.58	3.56
1899	.....	T	1.35	0.15	0.90	0.05	0.05	0.00	0.00	0.60	0.15	0.07	.....
1900	.....	0.20	0.15	T	2.00	0.40	0.00	0.00	0.25	0.65	1.05	T	.....
1901	0.40	3.73	T	.....	0.27	0.00	0.00	1.20	0.40	0.75	0.50	0.52	.....
1902	0.14	0.55	0.35	0.20	0.15	0.00	0.10	0.00	0.50	0.00	0.20	0.00	2.19
1903	.....	.....	0.00	0.00	0.00	.....	0.00	0.00	0.00	0.00	0.40	0.00	.....
1904	0.20	0.90	0.55	0.05	0.00	0.00	0.00	0.40	0.40	1.25	0.00	0.05	3.80
1905	0.25	0.40	0.97	0.40	0.50	0.00	0.00	0.50	0.40	0.00	0.90	1.20	5.52
1906	.....	0.30	0.80	0.90	1.10	0.00	0.00	0.00	0.00	.....	.....	1.18	.....
1907	0.42	0.13	0.65	0.00	0.03	0.01	.....	.....	0.12	1.06	0.60	2.05	.....
Means	0.65	0.60	0.54	0.34	0.63	0.07	0.06	0.14	0.22	0.34	0.31	0.69	4.59

#### Monthly and Annual Mean Temperatures.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1888	25 <sup>1</sup>	41	42	55	59	69	79	79	74	54	43	26	54
1889	24	38	50	59	58	71 <sup>1</sup>	79	72	56	54	39	34	53
1890	26	29 <sup>1</sup>	41	47 <sup>1</sup>	54 <sup>1</sup>	63 <sup>1</sup>	78	77	67	52	40	39	51
1891	30	33	44	51	59	63	74	77	64	54	43	27	52
1892	29	26	41	46	59	73	77	74	62	48	39	32	50
1893	26	31	35	42	46	66	74	73	65	57	42	36	49
1894	31	30	47	48	61	64	77	70	58	49	42	29	50
1895	28	31	37	46	55	71	71	70	57	50	35	27	48
1896	32	34	40	42	50	71	77	71	59	52	37	37	50
1897	30	30	36	50	64	63	72	76	58	47	38	30	50
1898	21	37	34	54	56	71	77 <sup>1</sup>	74	67	50	38	29	51
1899	.....	33	40	45	52	66	75	66	64	47	41	33	.....
1900	36	37	46	46	61	70 <sup>1</sup>	.....	70	56	47	41	35	.....
1901	35	33	41 <sup>1</sup>	47 <sup>1</sup>	60 <sup>1</sup>	67	78 <sup>1</sup>	77	60	56	40	36	52
1902	30	41	38	48	54	73	72	75	64	53	44	37	52
1903	34	17 <sup>1</sup>	42	48	52	70	73	72	58	46	39	26	48
1904	30	37	40	54	53	71	.....	65 <sup>1</sup>	50	43	40	.....	.....
1905	36	35	39	45	48	66 <sup>1</sup>	73	71	59	49	34	21	48
1906	28 <sup>1</sup>	32	36	51	52 <sup>1</sup>	64 <sup>1</sup>	81	71 <sup>1</sup>	55	51	41	39	50
1907	28	41	36	54	44 <sup>1</sup>	60	77 <sup>1</sup>	69	60	55	39	34	50
Means	29.4	33.3	40.2	48.9	54.8	67.6	75.8	72.9	61.4	51.0	39.9	32.4	50.6

Extreme values in *italic* type.

<sup>1</sup>No record; mean obtained by applying the departure from the normal at Humboldt to the normal for the month at Mill City.

#### Temperature Extremes, 1888 to 1907, Inclusive.

Month.	Maximum.	Year.	Day.	Minimum.	Year.	Day.
January	68	1891	1	-28	1890	9
February	78	1888	27	-15	1893	2
March	80	1889	31	10	1896	.....
April	91	1888	20	20	1903	1
May	95	1897	.....	30	1899	1
June	106	1900	28	36	1907	13
July	116	1889	29	38	1902	2
August	109	1895	5	38	1899	22
September	104	1888	2	28	1895	22
October	90	1892	4	20	1895	31
November	75	1894	.....	-5	1896	.....
December	62	1893	2	-14	1905	24



## CLIMATOLOGICAL DATA FOR APRIL, 1908.

Stations.	Counties.	Elevation (feet)	Length of record (years).	Temperature (degrees Fahrenheit).							Precipitation (inches).					Sky.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snow fall (unmelted).	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.			
Northern Section.																					
Battle Mountain .....	Lander .....	1,843	38	49.1	-0.4	78	30	21	7	38	1.75	+1.06	0.75	0.0	3	16	11	3	SW	Agent So. Pacific Co.	
Beowawe-3 n .....	Eureka .....	4,905	38	55.3	+6.0	80	19	30	2	48	.....	.....	.....	.....	.....	19	0	11	SW	Agent So. Pacific Co.	
Carlin-3 .....	Elko .....	5,232	38	45.0	-1.1	84	30	11	7	60	.....	.....	.....	.....	.....	.....	.....	.....	.....	Agent So. Pacific Co.	
Clover Valley† .....	Elko .....	6,000	9	47.2	.....	83	19	6	1	50	0.11	.....	0.07	0.0	2	20	5	5	N	I. F. Wiseman	
Elko-3 .....	Elko .....	5,342	38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Agent So. Pacific Co.	
Golconda .....	Humboldt .....	4,697	30	46.3	-4.9	84	13	10	7	57	0.85	+0.25	0.50	0.0	2	22	0	8	E	Agent So. Pacific Co.	
Halleck-3 .....	Elko .....	5,631	36	45.9	-0.5	81	13	10	1	16	0.60	-0.01	0.30	0.0	2	11	12	4	NW	Agent So. Pacific Co.	
Humboldt .....	Humboldt .....	4,236	37	53.7	+3.9	82	12	15	6	42	.....	.....	.....	.....	.....	13	7	10	SW	Agent So. Pacific Co.	
Lovelocks B .....	Humboldt .....	3,977	16	52.2	+1.4	85	12	10	3	59	0.55	+0.37	0.30	0.0	2	21	6	3	N	G. S. Webb	
Mill City-3 .....	Humboldt .....	4,391	20	51.0	+2.1	80	26	11	1	48	0.35	+0.01	0.20	0.0	3	15	12	3	W	Agent So. Pacific Co.	
Quinn River Ranch¶ .....	Humboldt .....	4,850	7	48.1	.....	82	19	4	1	58	0.25	.....	0.16	0.0	4	19	6	5	SW	F. M. Payne	
San Jacinto c .....	Elko .....	.....	4	45.6	.....	79	19	16	5	55	0.06	.....	0.06	0.0	1	17	7	6	W	Moses Jones	
Tecoma .....	Elko .....	4,812	31	49.1	+5.6	75	27	15	7	40	0.01	-0.61	0.01	0.0	1	19	7	4	SE	Agent So. Pacific Co.	
Wells .....	Elko .....	5,631	37	49.0	-0.5	72	18	26	29	39	0.08	-0.55	0.06	0.0	3	18	4	8	SW	Agent So. Pacific Co.	
Winnemucca .....	Humboldt .....	4,432	30	48.0	+0.9	81	19	12	1	48	0.87	-0.01	0.42	0.0	3	19	8	3	SW	U. S. Weather Bureau	
Means .....		.....	.....	49.0	.....	.....	.....	.....	.....	.....	0.50	.....	.....	0.0	2	18	6	6	SW	.....	
Eastern Section.																					
Cherry Creek .....	White Pine .....	6,450	0	41.8	.....	76	19	5	1	61	0.09	.....	0.05	0.5	3	12	16	2	SW	J. H. Leishman	
Ely .....	White Pine .....	6,000	18	47.5	+5.3	76	12	17	1	48	T	-1.55	T	0.0	0	22	7	1	NE	G. C. Hunting	
Hamilton f .....	White Pine .....	7,977	2	38.8	.....	59	12	15	26	31	0.34	.....	0.34	3.4	1	.....	.....	.....	.....	Geo. Allen	
Means .....		.....	.....	42.7	.....	.....	.....	.....	.....	.....	0.14	.....	.....	1.3	1	17	11	2	SW	.....	
Central Section.																					
Austin f .....	Lander .....	6,594	20	47.8	+4.4	72	13	21	8	40	1.03	-0.42	0.39	2.0	5	19	5	6	W	F. H. Triplett	
Eureka .....	Eureka .....	6,500	6	46.6	.....	76	12	7	1	41	0.30	.....	0.30	1.0	1	17	6	7	S	Clay Simms	
Millett .....	Nye .....	.....	1	47.5	.....	79	12	9	1	57	0.12	.....	0.12	0.0	1	19	8	3	S	Fred J. Jones	
Potts .....	Nye .....	6,990	16	42.1	-2.4	74	30	9	1	49	0.05	-0.83	0.05	0.5	1	10	9	11	N	Miss Mamie Potts	
Means .....		.....	.....	46.0	.....	.....	.....	.....	.....	.....	0.38	.....	.....	0.9	2	16	7	7	S	.....	
Western Section.																					
Carson Dam†† .....	Churchill .....	4,032	2	51.9	.....	81	19	18	1	43	0.26	.....	0.14	0.0	2	22	4	4	W	J. M. Heizer	
Fallon .....	Churchill .....	3,965	4	52.6	.....	89	3	18	1	56	0.28	.....	0.21	0.0	3	18	12	0	NW	U. S. Reclamation Serv.	
Fernley †† .....	Lyon .....	4,200	1	53.6	+0.9	83	30	14	1	48	0.23	-0.12	0.23	0.0	1	23	3	4	NW	U. S. Reclamation Serv.	
Gardnerville A .....	Douglas .....	4,830	9	48.7	.....	87	11	14	4	61	0.00	.....	0.00	0.0	0	18	6	6	SE	William Dangberg	
Leetville † B .....	Churchill .....	4,020	2	52.0	.....	83	12	15	1	49	0.20	.....	0.20	0.0	1	23	7	0	W	U. S. Reclamation Serv.	
Lewers' Ranch‡ .....	Washoe .....	5,500	21	49.6	+3.6	81	27	17	1	47	0.13	-1.47	0.08	0.5	2	19	9	2	.....	Ross Lewers	
Reno .....	Washoe .....	4,532	38	49.4	+2.1	78	11	19	1	45	0.11	-0.50	0.08	T	3	19	6	5	W	Section Center	
Soda Lake ¶ .....	Churchill .....	4,005	2	53.1	.....	83	12	23	1	43	0.73	.....	0.43	0.0	2	20	9	1	SW	U. S. Reclamation Serv.	
Wabuska .....	Lyon .....	4,347	6	50.2	.....	88	12	11	1	56	0.32	.....	0.20	0.0	2	19	9	2	NW	F. Leslie Smaill	
Means .....		.....	.....	51.2	.....	.....	.....	.....	.....	.....	0.25	.....	.....	0.1	2	20	7	3	W	.....	
Southern Section.																					
Columbia .....	Esmeralda .....	5,750	2	53.6	.....	84	18	19	2	46	0.51	.....	0.50	0.0	2	25	1	4	S	Will W. Thompson	
Geyser .....	Lincoln .....	.....	4	46.4	.....	77	12	10	11	66	0.20	.....	0.20	2.0	1	19	11	0	S	Mrs. J. F. Wambolt	
Jean .....	Lincoln .....	2,074	1	69.2	.....	90	19	38	7	26	0.00	.....	0.00	0.0	0	28	0	2	W	Agent Salt Lake Route	
Las Vegas .....	Lincoln .....	2,031	1	64.2	.....	91	13	32	4	54	T	.....	T	T	0	19	7	4	N	Agent Salt Lake Route	
Logan .....	Lincoln .....	1,700	2	64.6	.....	91	18	35	9	49	0.03	.....	0.02	0.0	2	18	11	1	SE	Chas. Arney	
McAfee's Ranch* .....	Esmeralda .....	4,835	5	46.0	.....	78	7	5	2	59	0.50	.....	0.50	0.0	1	16	2	12	N	W. T. Carter	
Mina .....	Esmeralda .....	4,600	2	50.0	.....	82	14	25	3	42	0.05	.....	0.05	0.0	1	3	20	7	S	Agent So. Pacific Co.	
Palmetto .....	Esmeralda .....	6,780	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Wm. Oothout, Jr.	
Panaca .....	Lincoln .....	4,750	0	.....	.....	.....	.....	.....	.....	.....	0.44	.....	0.40	0.0	2	.....	.....	.....	.....	F. E. Edwards	
Tonopah .....	Nye .....	6,090	2	49.2	+5.7	72	12	18	1	33	0.38	-1.32	0.38	2.0	1	20	9	1	NW	U. S. Weather Bureau	
Means .....		.....	.....	55.4	.....	.....	.....	.....	.....	.....	0.23	.....	.....	0.4	1	18	8	4	S	.....	
State Means and Extremes.																					
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REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station indicates the number of days missing from the record; for instance, "n" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.

† Postoffice—Wells. † Postoffice—Franktown. ‡ Postoffice—Amos. \* Postoffice—Dyer. † Postoffice—Fallon. \*\* Postoffice—Golconda. †† Postoffice—Hazen. †† Postoffice—Wadsworth.

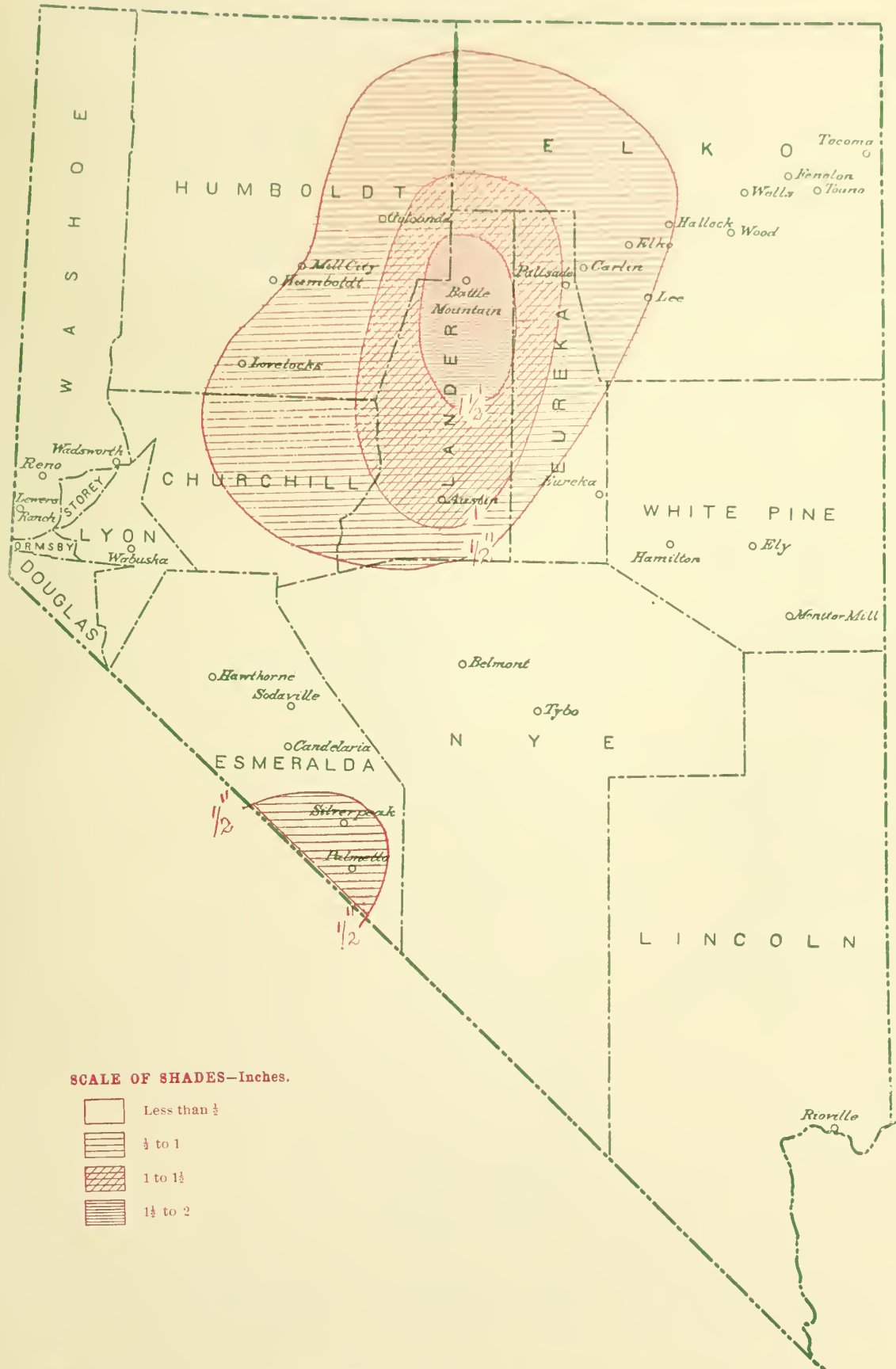


Stations.	Day of Month.																															Monthly Means.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly Means.	

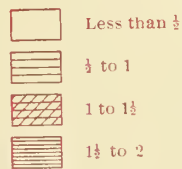
Austin.....	Max.	60.0	72	65	67	72	60.0
Battle Mountain.....	Min.	35.7	41	37	27	41	35.7
Carson Dam.....	Max.	38.4	44	38	54	38	38.4
Cherry Creek.....	Min.	37.9	40	31	36	40	37.9
Clover Valley.....	Max.	36.3	44	33	39	44	36.3
Columbia.....	Min.	62.1	73	57	68	73	62.1
Ely.....	Max.	21.5	16	11	14	16	21.5
Eureka.....	Min.	65.5	75	71	75	75	65.5
Fallon.....	Max.	28.9	29	28	21	29	28.9
Fernley.....	Min.	35.3	41	32	32	41	35.3
Gardnerville.....	Max.	64.6	75	69	74	75	64.6
Geyser.....	Min.	63.1	75	62	65	75	63.1
Golconda.....	Max.	30.1	39	31	32	39	30.1
Hamilton.....	Min.	70.9	79	76	62	79	70.9
Jean.....	Max.	34.3	39	34	37	39	34.3
Las Vegas.....	Min.	68.8	80	64	78	80	68.8
Leetville.....	Max.	38.1	43	38	38	43	38.1
Lewers' Ranch.....	Min.	68.7	86	75	80	86	68.7
Logan.....	Max.	28.7	36	26	30	36	28.7
Lovelocks.....	Min.	66.6	74	67	71	74	66.6
McAfee's Ranch.....	Max.	32.7	40	35	38	40	32.7
Millett.....	Min.	82.9	90	85	88	90	82.9
Mina.....	Max.	71.2	80	78	82	80	71.2
Palmetto.....	Min.	33.3	34	32	32	34	33.3
Potts.....	Max.	71.0	77	69	72	77	71.0
Quinn River Ranch.....	Min.	67.6	78	76	76	78	67.6
Reno.....	Max.	27.4	30	25	30	30	27.4
San Jacinto.....	Min.	65.2	69	65	68	69	65.2
Soda Lake.....	Max.	34.9	37	36	36	37	34.9
Tecona.....	Min.	60.1	71	68	68	71	60.1
Tonopah.....	Max.	24.1	29	24	20	29	24.1
Wabaska.....	Min.	68.4	78	68	68	78	68.4
Winnemucca.....	Max.	27.8	41	25	18	41	27.8
	Min.	64.9	76	63	72	76	64.9
	Max.	33.9	40	37	31	40	33.9
	Min.	64.9	77	66	67	77	64.9
	Max.	26.3	30	28	22	30	26.3
	Min.	68.0	80	78	75	80	68.0
	Max.	38.2	45	37	36	45	38.2
	Min.	64.6	75	73	73	75	64.6
	Max.	33.6	43	39	40	43	33.6
	Min.	60.7	70	66	57	70	60.7
	Max.	37.8	46	47	35	46	37.8
	Min.	70.7	80	78	85	80	70.7
	Max.	29.6	36	28	25	36	29.6
	Min.	65.2	73	68	58	73	65.2
	Max.	31.0	31	26	20	31	31.0



TOTAL PRECIPITATION FOR APRIL, 1908.



SCALE OF SHADES—Inches.









back  
U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR MAY, 1908.

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NEVADA SECTION  
OF THE  
CLIMATOLOGICAL SERVICE  
OF THE  
WEATHER BUREAU

IN COOPERATION WITH THE  
NEVADA STATE WEATHER SERVICE

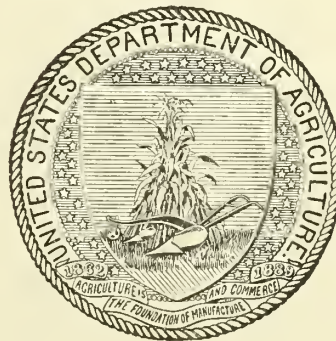
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UNDER DIRECTION OF  
WILLIS L. MOORE  
CHIEF U. S. WEATHER BUREAU

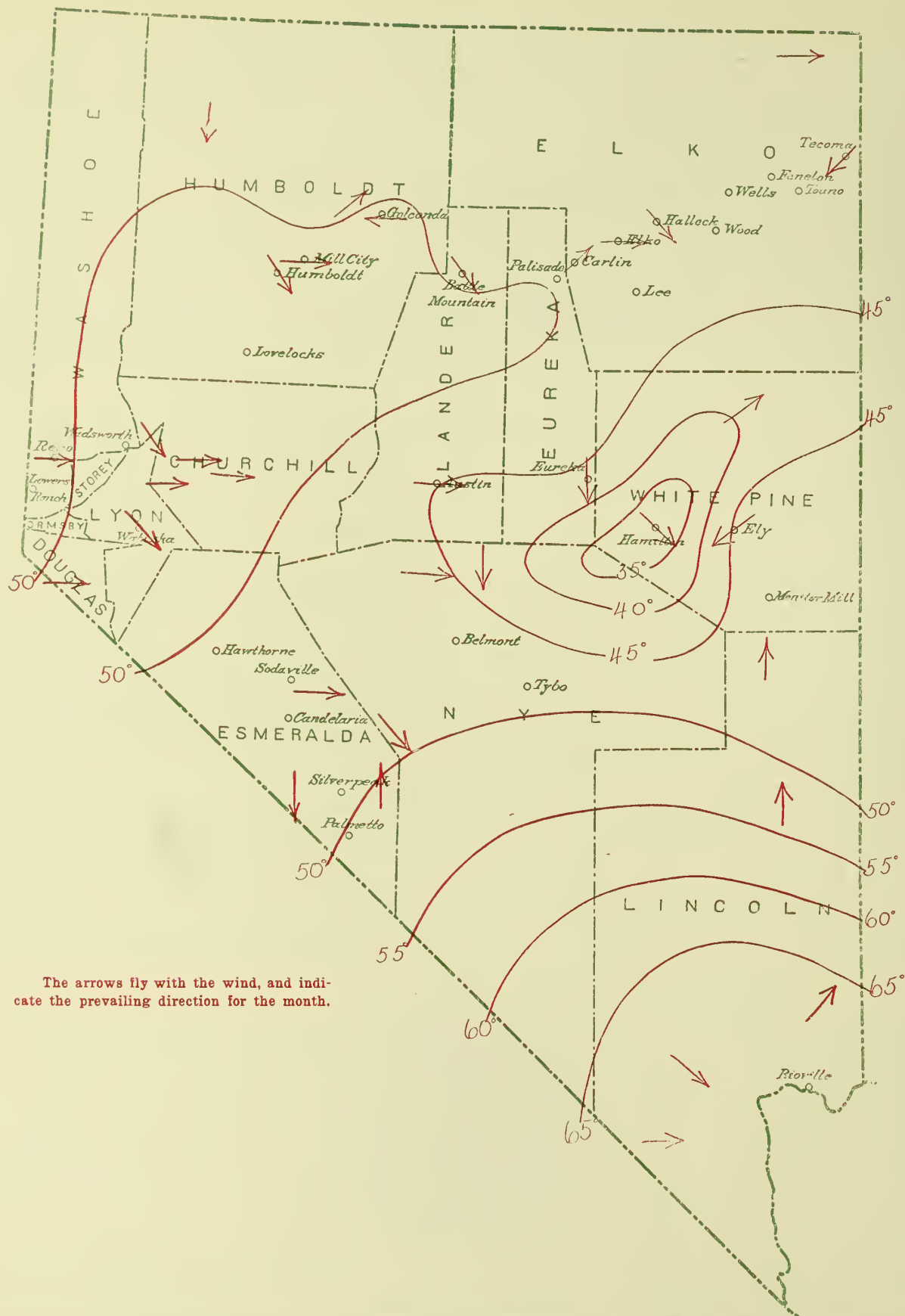
BY  
HARRY O. GEREN  
SECTION DIRECTOR



CARSON CITY, NEVADA:  
July 1, 1908.



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTION FOR MAY, 1908.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**  
 OF THE  
**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,  
 HARRY O. GEREN, Section Director.

VOL. XXII. RENO, NEVADA, MAY, 1908. No. 5.

**GENERAL SUMMARY.**

The weather was unusually cold, the month being the third coldest May on record. The coldest May was in 1896, when the mean temperature was 48.2°, which is 1.7° lower than the mean for the May just past. The temperatures were below the normal during almost the entire month, there being only a few scattered dates on which they exceeded it. The highest temperatures for the month were generally recorded during the first decade, especially on the 1st, over the northern half of the State; over the southern half they were registered on the 5th and 6th and during the last decade. Nearly all of them were above 75°. The lowest temperatures occurred mostly during the first decade, the majority being registered on the 8th, 9th, and 10th. At practically all of the stations, except those in the extreme southern portion, the monthly minimum was between 15° and 25°.

The precipitation was almost exactly normal. It was quite well distributed thruout the month over most of the State; in the southern section it was nearly all recorded during the first fifteen days. The largest monthly totals appear, as usual, in the northeastern portion of the State, over eastern Elko, northern White Pine, and southern Eureka Counties.

**Temperature.**

The mean temperature for the State was 49.9°, which is 4.6° lower than the normal for the month, and 1.9° lower than the mean for the corresponding month of 1907. The highest monthly mean temperature was 68.0°, at Jean, Lincoln County; the lowest was 34.2°, at Hamilton, White Pine County. The highest temperature was 99°, at Las Vegas, Lincoln County, on the 25th and 26th. The lowest was 7°, at Cherry Creek, White Pine County, on the 10th. The greatest daily range was 58°, at Quinn River Ranch, Humboldt County, on the 5th, and at Geyser, Lincoln County, on the 28th.

**Precipitation.**

The average amount for the State was 1.01 inches, which is 0.03 inch less than the normal for the month, and 0.45 inch more than the average for the corresponding month of 1907. The greatest monthly amount was 2.80 inches, at Lewers' Ranch, Washoe County, while there was none at all at Mina, Esmeralda County. The greatest amount recorded

in twenty-four hours was 1.25 inches, at Wells, Elko County, on the 30th. The average number of days with 0.01 inch or more of precipitation was 5.

**Wind.**

The prevailing direction was west. The average hourly velocity at Reno was 7.5 miles; at Tonopah it was 13.6 miles, and at Winnemucca it was 6.5 miles. The maximum velocity for a period of five minutes at Reno was at the rate of 36 miles per hour, south, on the 2d; at Tonopah it was 52 miles per hour, northwest, on the 25th, and at Winnemucca it was 35 miles per hour, northwest, on the 3d.

**Sunshine and Cloudiness.**

The average number of clear days was 12, partly cloudy days 10, and cloudy days 9.

**COMPARATIVE STATE DATA FOR MAY.**

Year.	Temperature.			Average precipita- tion.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1889 .....	57.8	106	20	1.44	6	15	11	5	sw
1890 .....	59.9	105	23	1.05	5	17	12	2	s
1891 .....	54.7	95	21	2.43	10	9	12	10	s
1892 .....	53.8	100	13	1.17	6	11	14	6	sw
1893 .....	62.6	98	18	0.41	3	17	10	4	sw
1894 .....	56.3	95	25	0.80	4	12	14	5	sw
1895 .....	56.1	105	18	0.55	4	14	8	9	sw
1896 .....	48.2	108	5	2.03	11	11	9	11	sw
1897 .....	60.0	99	12	0.59	5	16	15	0	sw
1898 .....	51.8	93	20	1.84	7	11	9	11	w
1899 .....	49.7	96	10	0.68	4	10	10	11	sw
1900 .....	56.6	101	20	0.77	3	16	5	10	w
1901 .....	56.2	94	19	0.86	4	13	8	10	sw
1902 .....	53.7	102	16	0.37	3	15	8	8	sw
1903 .....	54.1	106	15	0.70	3	16	7	8	sw
1904 .....	54.0	98	10	0.84	3	18	6	7	n
1905 .....	50.4	94	17	1.23	5	12	8	11	sw
1906 .....	53.1	98	14	1.38	5	13	8	10	w
1907 .....	51.8	99	13	0.56	3	13	10	8	w
1908 .....	49.9	99	7	1.01	5	12	10	9	w
Entire period .....	54.5	108	5	1.04	5	13	10	8	sw

**MISCELLANEOUS PHENOMENA.**

*Duststorms*—Eureka, 7th; Fallon, 7th, 18th; Jean, 7th, 8th, 20th, 21st, 24th, 25th, 27th, 28th, 29th, 30th; Mill City, 1st, 24th.

*Hail*—Austin, 14th; Carlin, 19th; Carson Dam, 11th; Fernley, 2d, 14th; Lovelock, 19th; Mill City, 19th; Potts, 8th.

*Halos, Lunar*—Carson Dam, 13th.

*High Winds*—Anstin, 7th, 15th; Carlin, 25th; Carson Dam, 1st, 2d, 5th, 7th, 11th, 18th; 25th; Cherry Creek, 7th, 8th, 18th, 19th, 21st, 22d, 29th; Clover Valley, 7th, 8th, 9th, 13th, 25th, 26th; Columbia, 2d, 3d, 7th, 8th, 12th, 14th, 18th, 19th, 20th, 24th, 25th, 29th, 30th; Eureka, 1st; Fallon, 1st, 6th, 25th, 29th; Gardnerville, 2d, 7th, 18th, 19th, 25th, 30th; Las Vegas, 1st, 2d, 6th, 7th, 8th, 11th, 14th, 25th, 26th, 28th, 29th, 30th; Leetville, 1st, 7th, 8th, 18th, 19th, 25th, 29th; Logan, 2d, 26th, 30th; Lovelock, 19th, 24th, 25th, 26th; Reno, 2d; Millett, 6th, 7th, 18th, 29th; Panaca, 8th, 16th, 25th, 27th, 30th; Potts, 1st, 6th, 7th, 8th, 18th, 19th, 29th;



San Jacinto, 6th, 26th; Tonopah, 25th; Wabuska, 1st, 7th, 25th; Winnemucca, 3d.  
*Sleet*—Cherry Creek, 8th; San Jacinto, 16th, 26th.  
*Thunderstorms*—San Jacinto, 25th; Winnemucca, 24th.

CORRECTIONS.

April, 1908, page 29: Goleonda mean temperature published 46.3°, should be 46.4°. Page 30: The maximum temperatures on the 5th, 6th, and 20th should be 57, 39, and 79, respectively, and the mean maximum should be 69.4°. [These were not typographical errors.—PRINTER.]

CLIMATOLOGY OF GOLCONDA, NEVADA.

Golconda is situated in the east-central portion of Humboldt County, in latitude 40° 57' north, and longitude 117° 30' west. The elevation is 4,697 feet, and the surrounding country is mountainous. The available record extends back twenty years and is fairly complete, with the exception of the temperature record in 1904 and 1905. In other years, wherever the monthly mean temperature was missing, an interpolated value was computed from the record at Winnemucca, which is sixteen miles distant.

The warmest month, July, has a normal temperature of 76.3°, and the coldest month, January, a normal of 27.8°. The coldest year was that of 1899, when the mean temperature was 46.5°, and the warmest was 1888, with a mean of 57.1°, giving a difference of 10.6° between the mean annual temperatures of the warmest and coldest years. The warmest month recorded was July, 1890, the monthly mean being 85.0°; the coldest month was January, 1890, with a mean of 15.0°. This latter, however, is an interpolated value, the coldest month according to an actual record being January, 1898, when the mean was 18.6°. Taking this as the lowest mean temperature, the difference between the warmest and coldest months amounts to 66.4°. The highest temperature ever observed was 118°, in July, 1890, and the lowest was 20° below zero on February 13, 1903. This makes a range of 138° during the length of the record. Freezing temperatures have been recorded in every calendar month, except June, July, and August, and the temperature has been above 75° in every calendar month, except January.

The precipitation has averaged 6.01 inches annually, the greatest normal monthly amount being 1.05 inches, in May, and the least, 0.07 inch, in July. It is questionable, however, that May is the wettest month, as the unusually heavy fall of 6.80 inches (the greatest amount in any one month on record), during May, 1896, has great weight in a short record of twenty years in a locality where the usual amount is relatively small. It is likely that December, with a normal of 0.85 inch, is the wettest month. During the great majority of years a rainless period of from two to four months duration has been experienced. The wettest year was 1896, when 10.52 inches of precipitation occurred, and the driest was 1898, with a total of only 1.94 inches. During this latter year there was a total of six months without rain.

The station has always been at the depot of the Southern Pacific Company, with the station agent of the company as the observer. The following tables give all available records:

Monthly and Annual Precipitation.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1888	.....	0.10	0.00	0.95	1.25	0.45	0.10	.....	.....	0.65	0.25	1.05	.....
1889	0.25	0.00	0.40	0.05	0.35	0.00	0.00	0.00	0.00	0.18	0.05	1.57	2.85
1890	.....	0.42	0.66	0.10	0.10	0.00	0.00	0.00	0.25	0.15	0.00	0.48	.....
1891	0.40	1.75	0.85	0.25	1.65	1.27	0.48	0.00	1.05	0.05	0.05	2.22	10.02
1892	0.30	0.20	1.70	0.95	1.05	0.80	0.00	0.00	0.40	0.00	0.60	0.70	6.70
1893	0.85	0.95	0.95	0.87	0.00	0.05	T	0.00	0.66	0.00	0.30	0.35	4.98
1894	0.68	1.00	0.15	0.54	0.91	1.33	0.40	0.25	0.04	0.09	0.00	1.30	6.69
1895	1.10	0.00	0.75	0.00	1.40	0.05	0.00	0.00	0.02	0.00	0.07	0.70	4.09
1896	0.65	0.20	0.87	0.73	6.80	0.00	0.00	0.05	0.20	0.30	0.72	0.10	10.52
1897	0.44	1.19	0.57	0.30	0.15	0.30	0.00	0.00	0.10	1.32	0.10	0.30	4.77
1898	0.27	0.00	0.27	0.00	0.79	0.00	0.00	0.00	0.06	0.00	0.36	0.19	1.94
1899	0.45	0.40	1.06	0.60	1.38	1.28	0.03	0.50	T	0.20	0.05	0.33	6.28
1900	0.05	0.33	.....	0.15	0.30	0.26	.....	0.03	0.29	0.51	1.88	T	.....
1901	1.00	0.43	T	0.85	0.81	0.22	0.00	0.37	0.00	0.01	T	1.14	4.83
1902	0.20	1.46	0.70	T	T	T	T	0.37	0.32	T	0.45	.....	.....
1903	1.70	0.60	0.30	0.22	0.00	0.30	0.00	T	T	0.50	1.10	T	4.72
1904	0.10	1.05	0.90	.....	.....	T	0.30	0.60	1.00	3.32	0.05	T	.....
1905	1.15	1.25	1.30	0.35	1.15	T	0.00	0.00	0.50	0.00	0.93	.....	.....
1906	1.50	.....	.....	1.50	.....	0.75	.....	0.05	0.20	0.00	.....	.....	.....
1907	0.50	1.25	1.52	0.07	0.75	1.25	0.00	0.00	0.55	0.00	0.20	3.95	10.04
Means	0.64	0.66	0.72	0.45	1.05	0.42	0.07	0.12	0.30	0.36	0.37	0.85	6.01

Monthly and Annual Mean Temperatures.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1888	19 <sup>1</sup>	43	50	59	70	72	80	74 <sup>1</sup>	69 <sup>1</sup>	55	52	43	57
1889	27	38	47	54	63	78	82	79	66	56	45	35	56
1890	15 <sup>1</sup>	33	42	46	46	69	85	74	64	51	34	33	49
1891	26	32	40	53	61	68	78	78	64	51	40	27	52
1892	25	30	42	46	55	65	76	74	62	48	36	28	49
1893	23	27	35	40	56	68	77	76	60	51	38	36	49
1894	33	30	42	51	62	63	78	77	64	54	43	31	52
1895	29	29	38	50	58	67	72	72	59	50	33	26	49
1896	36	34	40	44	48	70	76	71	59	53	39	32	50
1897	31	30	31	49	65	66	69	73	56	46	35	33	49
1898	19	38	36	48	51	62	77	74	55	41	35	24	47
1899	30	30	39	41	48	63	69	60	58	46	41	33	46
1900	38	37	49	49	56	71 <sup>1</sup>	75 <sup>1</sup>	67 <sup>1</sup>	60	48	42	36	52
1901	37	34	42	44	57	64	83	72	64	60	50	39	54
1902	31	41	38	46 <sup>1</sup>	55 <sup>1</sup>	67	72 <sup>1</sup>	70 <sup>1</sup>	64	50	35	35	50
1903	31	22	44	47	57	74	75	76	64	51	45	31	51
1904	27	38	40	.....	.....	69	.....	.....	.....	.....	.....	.....	.....
1905	.....	.....	.....	.....	.....	.....	.....	62	47	38	.....	.....	.....
1906	28	34	37	45	55 <sup>1</sup>	63 <sup>1</sup>	78	72	61	51	48 <sup>1</sup>	30	50
1907	24	45	42	52	55	60	72	67	60	52	40	36	50
Means	27.8	34.0	40.7	48.0	56.6	67.3	76.3	72.6	61.6	50.6	40.5	32.7	50.7

Extreme values in *italic* type.  
<sup>1</sup>No record; mean obtained by applying the departure from the normal at Winnemucca to the normal for the month at Golconda.

Temperature Extremes, 1888 to 1907, Inclusive.

Month.	Maximum.	Year.	Day.	Minimum.	Year.	Day.
January	63	1907	29	-12	1907	16
February	75	1888	.....	-20	1903	13
March	78	1900	2	4	1906	16
April	94	1897	24	19	1903	2
May	105	1888	.....	28	1899	1
June	102	1900	20	33	1907	14
July	118	1890	.....	42	1907	15
August	104	1894	.....	36	1899	21
September	94	1903	26	28	1907	19
October	84	1894	.....	15	1906	21
November	80	1894	.....	-10	1896	29
December	75	1888	.....	-8	1895	22



## CLIMATOLOGICAL DATA FOR MAY, 1908.

Stations.	Counties.	Elevation feet	Length of record, years	Temperature (degrees Fahrenheit)							Precipitation (inches)				Sky				Prevailing wind	Observer.
				Mean.	Departure from the normal	Highest.	Date.	Lowest.	Date.	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snow in inches	Number rainy days	Number clear days	Number partly cloudy days	Number cloudy days		
Northern Section.																				
Battle Mountain .....	Lander	4,843	38	48.3	-9.0	78	1	30	8	38	0.83	+0.06	0.50	1.5	1	16	5	10	SW	Agent So. Pacific Co.
Beowawe A .....	Eureka	4,905	38	51.6	-6.4	80	2	23	31	43										Agent So. Pacific Co.
Carlin .....	Elko	5,232	38	47.8	-6.1	83	1	15	10	53	1.12	+0.41	0.32	0.7	9	4	15	12	SW	Agent So. Pacific Co.
Clover Valley† .....	Elko	6,000	9	46.4		79	1	20	10	50	2.51		0.62	T	8	4	11	13		I. F. Wiseman
Elko-3 .....	Elko	5,342	38								0.43	-0.39	0.20	1.0	1	4	3	21	W	Agent So. Pacific Co.
Golconda .....	Humboldt	4,697	30	51.2	-5.4	80	1	26	5	49	1.15	+0.10	1.00	0.0	2	11	2	15	E	Agent So. Pacific Co.
Halleck .....	Elko	5,631	36	41.2	-11.8	80	1	11	10	49	2.19	+1.21	0.58	5.0	7	7	16	8	SW	Agent So. Pacific Co.
Humboldt .....	Humboldt	4,236	37	54.7	-3.2	78	24	28	9	39	1.35	+0.72	1.00	0.0	3	13	15	3	SW	Agent So. Pacific Co.
Lovelocks .....	Humboldt	3,977	16																	G. S. Webb
Mill City-3 .....	Humboldt	4,391	20	50.6	-4.2	76	5	30	8	36	1.05	+0.42	0.50	0.0	4	6	21	4	W	Agent So. Pacific Co.
Quinn River Ranch¶ .....	Humboldt	4,850	7	48.4		81	24	15	10	58	0.43		0.18	0.0	5	11	8	12	N	F. M. Payne
San Jacinto .....	Elko	4	46.6			79	6	23	13	18	1.92		0.66	3.0	11	5	7	19	W	Moses Jones
Tecoma .....	Elko	4,812	31	48.3	-10.8	78	1	21	12	47	1.22	+0.58	0.60	6.0	6	4	6	21	NE	Agent So. Pacific Co.
Wells .....	Elko	5,631	37	45.0	-11.4	80	10	14	10	66	2.56	+1.67	1.25	8.0	8	8	1	22		Agent So. Pacific Co.
Winnemucca .....	Humboldt	4,132	30	48.2	-6.2	79	6	21	10	44	1.02	-0.61	0.31	0.3	7	14	11	6	SW	U. S. Weather Bureau
Means .....				48.6							1.37			2.2	6	9	9	13	W	
Eastern Section.																				
Cherry Creek .....	White Pine	6,450	0	42.5		82	25	7	10	55	2.26		0.88	13.5	12	2	23	6	SW	J. H. Leishman
Ely .....	White Pine	6,000	18	48.2	-2.5	80	1	23	19	50	1.11	-0.55	0.40	1.3	5	9	12	10	NE	G. C. Hunting
Hamiltons .....	White Pine	7,977	2	34.2		57	7	16	9	36	1.64		0.60	16.0	5				SW	Geo. Allen
Means .....				41.6							1.67			10.3	7	6	17	8	NW	
Central Section.																				
Austin F .....	Lander	6,594	20	44.0	-7.1	74	1	22	3	32	1.41	-0.24	0.40	9.2	6	16	4	11	W	F. H. Triplett
Eureka .....	Eureka	6,500	6	45.2		76	7	19	10	41	2.13		0.50	22.2	14	6	8	17	N	Clay Simms
Millett .....	Nye	1	48.5			79	18	20	9	52	0.38		0.12	0.0	6	14	12	5	W	Fred J. Jones
Potts .....	Nye	6,990	16	43.4	-9.8	75	29	19	9	48	0.45	-0.77	0.15	4.0	5	2	9	20	N	Miss Mamie Potts
Means .....				45.2							1.09			8.8	8	10	8	13	N	
Western Section.																				
Carson Dam††c .....	Churchill	4,032	2	51.0		80	5	28	15	39	0.24		0.24	T	1	19	3	9	W	J. M. Heizer
Fallon .....	Churchill	3,965	4	51.6		80	29	25	9	43	0.92		0.47	2.5	3	12	18	1	W	U. S. Reclamation Serv.
Fernley †† .....	Lyon	4,200	1	52.2	-10.9	84	24	30	8	46	0.83	+0.49	0.42	5.4	6	16	7	8	NW	U. S. Reclamation Serv.
Gardnerville .....	Douglas	4,830	9	51.4		86	30	20	15	49	1.20		0.50	2.0	3	15	6	10	W	William Dangberg
Leetville¶ .....	Churchill	4,020	2	52.6		83	6	27	9	44	1.20		0.75	4.0	2	22	8	1	W	U. S. Reclamation Serv.
Lewers' Ranch‡ .....	Washoe	5,500	21	47.6	-5.5	75	5	22	9	43	2.80	+1.27	0.85		11					Ross Lewers
Reno .....	Washoe	4,532	38	48.7	-4.9	78	24	26	9	42	0.71	-0.08	0.41	T	7	14	11	6	W	Section Center
Soda Lake ¶ .....	Churchill	4,005	2	53.5		82	6	28	16	38	0.91		0.40	0.0	3	12	16	3	SW	U. S. Reclamation Serv.
Wabuska .....	Lyon	4,347	6	51.1		81	6	21	9	50	0.68		0.40	4.0	2	16	14	1	NW	J. G. Young
Means .....				51.1							1.05			2.2	4	16	10	5	W	
Southern Section.																				
Columbia A .....	Esmeralda	5,750	2	52.9		80	6	25	9	45	1.30		0.50	8.0	10	22	4	5	S	Will W. Thompson
Geyser .....	Lincoln		4	48.6		78	20	12	17	58	0.57		0.20	0.2	4	9	19	3	S	Mrs. J. F. Wambolt
Jean .....	Lincoln	2,074	1	68.0		88	6	51	2	18	T		T	0.0	0	25	0	6	W	Agent Salt Lake Route
Las Vegas .....	Lincoln	2,033	1	67.4		99	25	40	5	55	0.01		0.01	0.0	1	8	17	6	NW	Agent Salt Lake Route
Logan .....	Lincoln	1,700	2	67.0		95	25	35	5	51	0.29		0.22	0.0	2	22	9	0	SW	Chas. Arney
McAfee's Ranch* A .....	Esmeralda	4,835	5	46.8		80	18	12	16	53	T		T	T	0	20	2	9	N	W. T. Carter
Mina .....	Esmeralda	4,600	2	46.8		75	28	27	9	35	0.00		0.00	0.0	0				W	Agent So. Pacific Co.
Palmetto .....	Esmeralda	6,780	19																	Wm. Oothout, Jr.
Panaca .....	Lincoln	4,750	0					34	9		0.65		0.43	0.0	2				S	F. E. Edwards
Tonopah .....	Nye	6,090	2	47.4	-4.5	73	29	24	8	33	0.46	-0.92	0.38	5.0	2	14	15	2	NW	U. S. Weather Bureau
Means .....				55.6							0.36			1.5	2	17	9	5	S	
State Means and Extremes.																				

REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station indicates the number of days missing from the record: for instance, "N" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means.

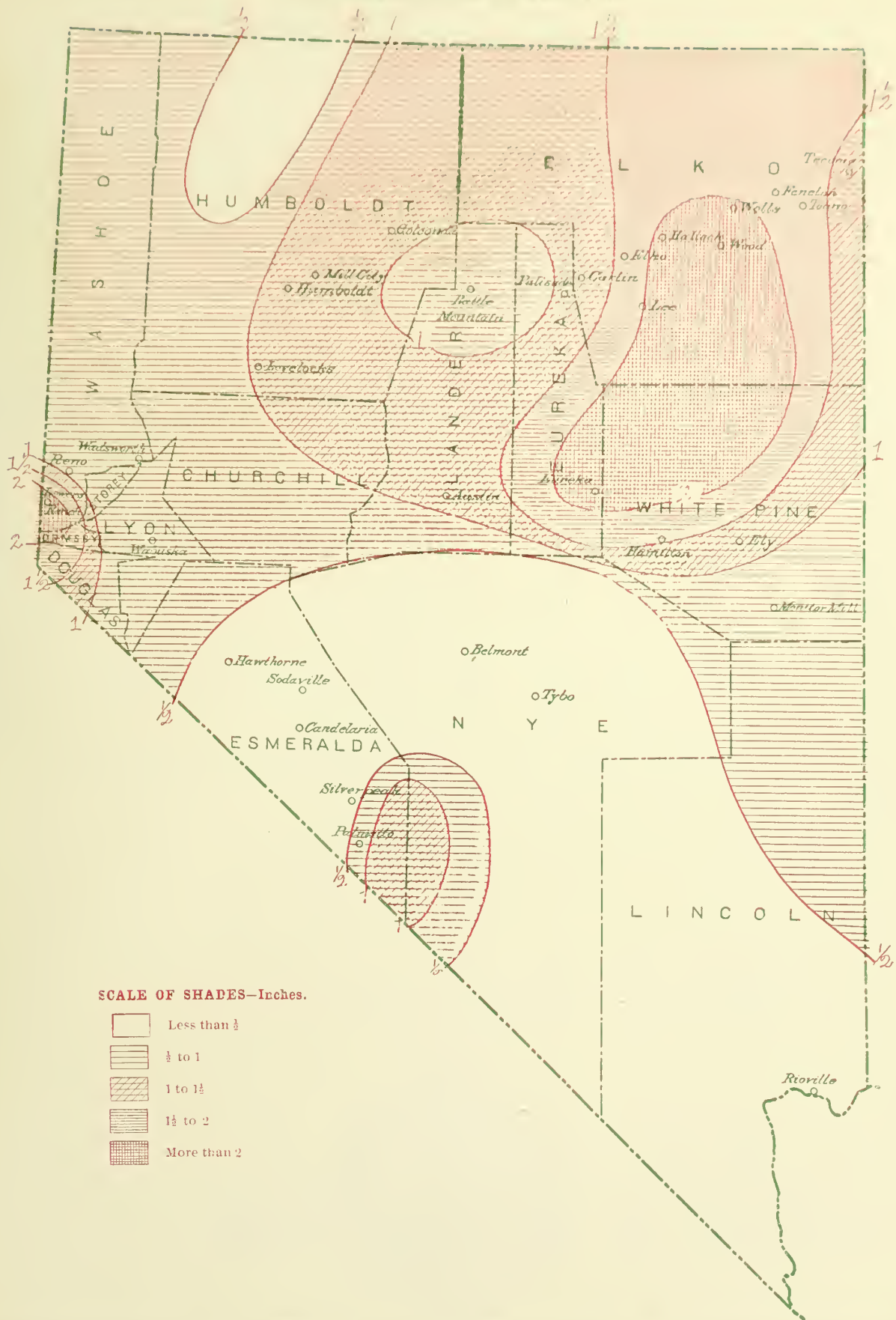
† Postoffice—Wells. † Postoffice—Franktown. ‡ Postoffice—Amos. \* Postoffice—Dyer. † Postoffice—Fallon. \*\* Postoffice—Golconda. †† Postoffice—Hazen. †† Postoffice—Wadsworth.







TOTAL PRECIPITATION FOR MAY, 1908





## DAILY PRECIPITATION FOR MAY, 1908.

Stations.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Northern Section.																																	
Battle Mountain			0.50					0.15			0.15																						0.83
Beowawe																																	1.12
Carlin	T	0.22	0.33				T	0.07	0.02		T	T		0.06	0.19				0.18	0.01	T					T	T			0.05	0.32		1.12
Clover Valley														0.50	0.19			0.26								0.10	0.07			0.12	0.62		2.51
Elko														0.02	0.01			0.20												0.20		0.43	
Golconda	T										1.00			0.58					0.15													1.15	
Halleck	0.35										1.00							0.29								0.26	T			0.11	0.50		2.19
Humboldt											1.00							0.25	0.10													1.35	
Lovelocks																		0.30	T		0.05											1.05	
Mill City	0.20										0.50							0.18							0.03							1.20	
Paradise Valley	0.34										0.68																					0.43	
Quinn River Ranch	0.07										0.18			0.02	0.13			0.20								0.30	0.02			0.02	0.30	0.66	1.92
San Jacinto	0.04	0.06									0.16		T	T	0.60	0.10	0.10	T		T	T		T	0.01	0.01	0.05	0.01	1.25	0.10		2.56		
Tecoma	0.10										0.31			0.60				0.14														2.56	
Wells	0.28							0.03			0.30			T				0.27	0.07							T				0.01	0.06	1.02	
Winnemucca																																	
Eastern Section.																																	
Cherry Creek	T	0.04						0.02			0.06	0.48	0.01	0.01	0.21	0.02			0.10	T	T									0.88	0.28	2.26	
Ely		0.15						T			T	0.27						0.03														1.11	
Hamilton	0.20	0.24					T	T			0.60			T	T	T		0.40												0.40	0.26	1.64	
Central Section.																																	
Austin		0.35	0.40					0.15			0.38	0.11		0.02																		1.41	
Eureka		0.50	0.10					0.02			0.25	0.05		0.19	0.16	0.01			0.25							0.02	0.03			0.40	0.09	2.13	
Millett		*	0.10								0.07			0.12																		0.38	
Potts		0.05	0.15					T			0.15			0.05	T				T		T					0.05				0.05	T	0.45	
Western Section.																																	
Carson Dam		T						T			T	0.24		T																		0.24	
Fallon								0.02			0.01	0.05	0.20	0.47	T															0.43	0.92	0.83	
Fernley								0.12						0.03													T			0.42		1.20	
Gardnerville								0.50				0.20																				1.20	
Leetville											0.75																					0.45	
Lewers' Ranch	T						*	0.30	*	0.20	T		0.60	*	0.30		*	0.85	0.30											0.25	2.80		
Reno	T						T	T	0.06		0.19	0.22		0.04				T	T	0.08	0.05					T				0.07	0.71	0.91	
Soda Lake											0.21		0.30																		0.40	0.68	
Wabuska								T	0.40		T	0.28																				T	
Southern Section.																																	
Columbia		0.50	0.20				0.01	0.01			0.03	0.50																				1.30	
Geyser						0.20					0.20																					0.57	
Jean	T																															T	
Las Vegas	T	0.01										T																			0.01	0.29	
Logan																																T	
McAfee's Ranch												0.07																				0.00	
Mina																																	
Palmetto																																	
Panaca																																	
Tonopah		0.38						T	0.08	T			0.22	T																	T	0.65	
																																0.46	

T indicates trace. \* Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, -  -

J. G. McCARTHY, SUPT.

1908



U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR JUNE, 1908.

NEVADA SECTION  
OF THE  
CLIMATOLOGICAL SERVICE  
OF THE  
WEATHER BUREAU

IN COOPERATION WITH THE  
NEVADA STATE WEATHER SERVICE

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF  
WILLIS L. MOORE  
CHIEF U. S. WEATHER BUREAU

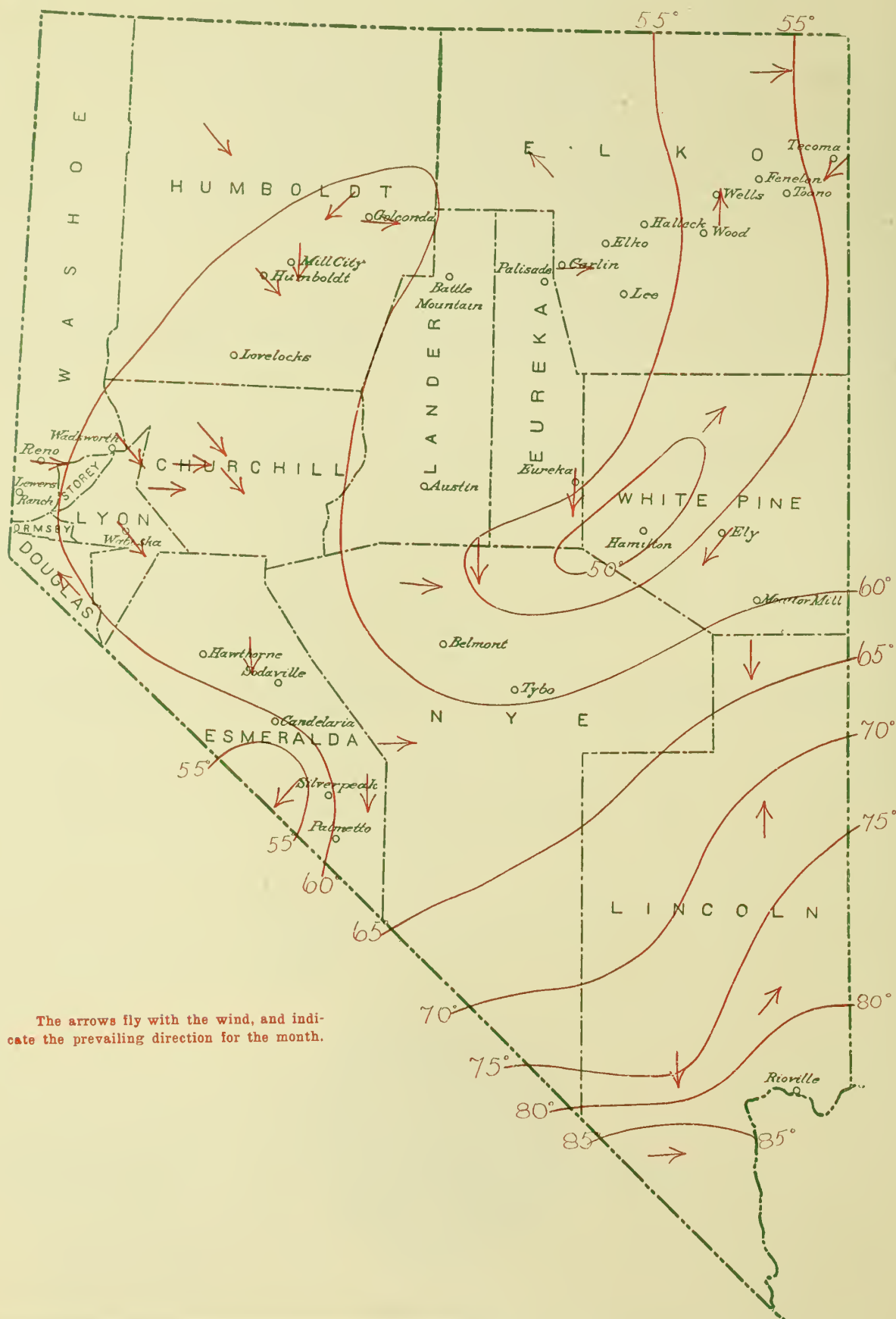
BY  
HARRY O. GEREN  
SECTION DIRECTOR



CARSON CITY, NEVADA:  
August 3, 1908.



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTION FOR JUNE, 1908.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**

OF THE  
**WEATHER BUREAU.**  
 CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,  
 HARRY O. GEREN, Section Director.

VOL. XXII.

RENO, NEVADA, JUNE, 1908.

No. 6.

**GENERAL SUMMARY.**

Practically normal weather conditions prevailed during the month, the mean temperature and total precipitation being only a small amount below normal. The month started with cool weather, the lowest temperatures for the month being recorded mostly during the first three days. The temperature reached normal about the 7th and remained slightly above it until the advent of another cool period on the 15th. This period culminated on the 22d, and from the 24th to the end of the month the weather was alternately warm and cool, the month closing warm with most of the monthly maximums recorded during the last few days. These maximums were nearly all above 85°, and the monthly minimums generally below 32°.

The precipitation occurred almost entirely during the first two decades. As usual, the greatest amounts fell over the northeastern portion and the least over the southern portion. Light snow fell at scattered stations in the northern portion, mostly on the 2d and 3d. At Hamilton, the elevation of which is nearly 8,000 feet, fourteen inches were recorded; at Mill City the amount was five inches, and at Winnemucca three inches.

**Temperature.**

The mean temperature for the State was 60.8°, which is 2.3° lower than the normal for the month, and 3.9° higher than the mean for the corresponding month of 1907. The highest monthly mean temperature was 87.4°, at Jean, Lincoln County; the lowest was 43.6°, at Hamilton, White Pine County. The highest temperature was 116°, at Jean, on the 30th, and the lowest was 18°, at McAfee's Ranch, Esmeralda County, on the 1st. The greatest daily range was 61°, at Carlin, Elko County, on the 23d, and Cherry Creek, White Pine County, on the 24th.

**Precipitation.**

The average amount for the State was 0.47 inch, which is 0.05 inch greater than the normal for the month, and 0.62 inch less than the average for the corresponding month of 1907. The greatest monthly amount was 2.88 inches, at Tecoma, Elko County, while there was none at all at six stations. The greatest amount recorded in twenty-four

hours was 1.00 inch at Tecoma, on the 2d. The average number of days with 0.01 inch or more of precipitation was 3.

**Wind.**

The prevailing direction was west. The average hourly velocity at Reno was 6.3 miles; at Tonopah it was 9.4 miles, and at Winnemucca it was 5.5 miles. The maximum velocity for a period of five minutes at Reno was at the rate of 32 miles per hour, southwest, on the 13th; at Tonopah it was 41 miles per hour, northwest, on the 2d, and at Winnemucca it was 24 miles per hour, southwest, on the 20th.

**Sunshine and Cloudiness.**

The average number of clear days was 17, partly cloudy days 9, and cloudy days 4.

**COMPARATIVE STATE DATA FOR JUNE.**

Year.	Temperature.			Average precipitation.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1889 .....	70.0	110	30	0.22	1	21	6	3	s
1890 .....	61.5	109	24	0.05	1	22	7	1	s
1891 .....	59.8	97	8	1.18	5	16	10	4	s
1892 .....	62.8	110	22	1.06	4	17	8	5	w
1893 .....	63.8	100	18	0.04	0	28	2	0	w
1894 .....	57.8	92	20	1.12	5	12	10	8	sw
1895 .....	62.9	109	14	0.13	1	20	6	4	sw
1896 .....	68.7	117	25	0.22	2	19	6	5	sw
1897 .....	62.8	112	20	0.37	3	16	8	6	sw
1898 .....	65.0	104	20	0.19	1	20	7	3	w
1899 .....	63.7	103	21	0.60	2	22	4	4	w
1900 .....	67.7	111	28	0.32	2	19	5	6	w
1901 .....	59.1	99	21	0.15	1	19	8	3	w
1902 .....	66.3	116	20	0.04	0	24	3	3	sw
1903 .....	66.5	113	28	0.45	3	17	8	5	sw
1904 .....	63.6	106	11	0.04	1	21	5	4	sw
1905 .....	61.9	101	24	0.11	1	21	5	4	sw
1906 .....	60.2	115	20	0.59	2	16	9	5	s
1907 .....	56.9	111	18	1.09	5	13	9	8	w
1908 .....	60.8	116	18	0.47	3	17	9	4	w
Entire period .....	63.1	117	8	0.42	2	19	7	4	sw

**MISCELLANEOUS PHENOMENA.**

*Frost, Killing*—Cherry Creek, 18th; Eureka, 3d; Gardnerville, 3d; Geyser, 17th, 18th; Millett, 22d, 23d; Potts, 3d, 6th, 18th, 22d, 23d, 27th; Tonopah, 3d; Winnemucca, 2d.

*Hail*—Carlin, 17th; Fernley, 2d; Geyser, 6th, 8th; Lovelock, 17th; San Jacinto, 8th; Squaw Valley, 4th.

*High Winds*—Cherry Creek, 2d; Carson Dam, 20th; Clover Valley, 26th, 27th; Columbia, 2d, 3d, 13th, 14th, 16th, 18th, 19th; Ely, 20th; Eureka, 20th; Fallon, 19th, 20th; Las Vegas, 2d, 19th, 21st; Leetville, 19th, 20th, 25th; Logan, 2d; Lovelock, 20th; Potts, 2d, 8th, 19th, 20th; Reno, 13th; Tonopah, 2d; Wabuska, 20th, 21st.

*Sleet*—Cherry Creek, 6th, 7th.

*Thunderstorms*—Carlin, 6th, 14th, 16th, 17th; Cherry Creek, 14th, 16th, 17th, 18th; Clover Valley, 2d, 8th; Eureka, 11th, 14th, 15th; Fernley, 13th; Gardnerville, 12th, 13th.



14th; Potts, 3d, 6th, 7th, 11th, 12th, 15th; Reno, 2d, 11th, 13th, 14th; San Jacinto, 8th, 10th, 14th; Wabuska, 12th, 13th, 14th; Winnemucca, 10th, 15th.

### CORRECTION.

May, 1908, page 37: Hamilton minimum temperature and date, published 16 on the 9th, should be 15 on the 10th.

### LATE REPORTS.

Squaw Valley, May, 1908—The mean temperature was 54.2°. The highest was 90°, on the 31st, and the lowest 26°, on the 13th. The greatest daily range was 50°. There were fourteen clear days, five partly cloudy days, and twelve cloudy days. The prevailing wind was southeast.

### CLIMATOLOGY OF HALLECK, NEVADA.

Halleck is situated in the central portion of Elko County, in latitude 40° 57' north, and longitude 115° 29' west. The elevation is 5,631 feet. The country in the immediate vicinity of the station is rather rolling, while in the distance it is mountainous. The available record extends back to 1892. Previous to 1903 it is very complete, but since that time it is fragmentary. The mean temperatures for the missing months have been computed as far as possible by applying the departure at Elko to the normal for the month at Halleck, Elko being only 24 miles distant and having approximately similar surroundings. The station has always been at the depot of the Southern Pacific Company, with the station agent as the observer. The observations were taken at 7 a. m., 2 p. m., and 9 p. m. thruout the record, but are now being taken but once a day, the station having been equipped recently with a standard outfit of Weather Bureau instruments.

The warmest month, July, has a normal temperature of 69.7°, and the coldest month, January, a normal of 21.8°. The coldest year was that of 1895, when the mean was 40.3°, and the warmest was that of 1900 with a mean of 47.3°, giving a difference of 7.0° between the mean annual temperatures of the warmest and coldest years. The warmest month recorded was July, 1904, the monthly mean being 73.1°; the coldest month was January, 1898, with a mean of only 8.5°. The difference between the mean temperatures of the warmest and the coldest months amounts to 64.6°. The highest temperature ever observed was 109°, on July 30, 1901, and the lowest was 32° below zero, on February 1, 1893. This makes a range of 141° during the length of the record. Freezing temperatures have been recorded in every calendar month, except July.

The average annual amount of precipitation is 9.41 inches, the greatest monthly normal being in March, with an average

of 1.54 inches. The month with the least precipitation is August, the normal for that month being 0.20 inch. The longest period without rain was during June, July, and August, 1893, but during the previous five months the total amount exceeded the normal annual amount.

The following tables give the data as far as available:

Monthly and Annual Precipitation.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1892	0.75	0.12	1.71	1.34	1.64	2.15	0.25	0.00	0.05	0.05	0.40	0.98	9.44
1893	2.90	1.40	2.37	2.95	0.75	0.00	0.00	0.00	0.48	0.45	1.75	1.01	13.46
1894	1.50	1.55	0.87	0.80	0.47	2.77	0.62	0.61	0.27	0.61	0.00	2.02	12.09
1895	1.95	0.90	0.29	0.31	0.61	0.24	T	0.50	0.05	T	0.75	1.04	6.64
1896	0.97	0.20	2.82	.....	2.63	0.32	0.14	0.34	0.22	0.32	0.89	0.22	.....
1897	0.70	2.15	2.13	0.36	1.00	0.99	0.26	0.27	T	1.00	1.13	3.57	13.56
1898	0.74	T	0.35	0.30	1.15	T	0.20	0.04	0.15	0.27	0.70	0.32	4.22
1899	0.63	0.45	5.00	0.50	0.20	T	T	0.25	0.00	0.50	0.35	1.70	9.58
1900	0.45	0.40	0.40	1.15	0.45	T	T	0.00	0.00	0.60	0.65	0.00	4.10
1901	1.50	1.90	0.10	0.20	T	0.35	0.00	0.12	0.25	0.00	0.01	1.10	5.53
1902	0.32	0.99	0.95	1.00	T	0.00	2.00	0.25	0.25	0.10	0.47	.....	.....
1903	1.95	0.50	.....	.....	.....	.....	T	0.50	T	.....	.....	0.00	.....
1904	.....	.....	2.01	1.47	2.01	0.22	2.46	0.30	1.57	2.45	0.00	0.82	.....
1905	1.00	0.55	1.98	.....	3.21	0.43	.....	0.50	1.20	.....	0.70	.....	.....
1906	2.40	.....	1.30	1.20	1.60	0.40	T	T	0.20	T	0.45	0.35	.....
1907	.....	.....	0.77	0.70	0.30	2.00	T	0.10	.....	0.75	0.21	3.46	.....
Means	1.27	0.85	1.54	0.94	1.07	0.62	0.40	0.20	0.35	0.47	0.52	1.18	9.41

Monthly and Annual Mean Temperatures.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1892	11	19	34	38	50	60	66	68	60	41	31	28	42
1893	13	17	30	37	49	60	68	68	56	40	28	24	41
1894	20	15	32	44	56	56	70	68	53	43	30	19	42
1895	18	20	29	42	49	56	67	66	51	38	28	20	40
1896	26	31	37	40 <sup>1</sup>	44	65	71	62	53	49	25	30	44
1897	24	24	26	43	57	63	69	69	56	41	38	20	44
1898	8	29	29	47	52	65	73	70	55	36	26	13	42
1899	27	26	33	45	46	62	72	60	55	39	35	26 <sup>1</sup>	44
1900	29	28	38	42	56	70	70	64	56	46	38	30	47
1901	25	29	36	43	58	60	73	69	55	47	36	31	47
1902	24	33	33	43	53	60	65	67	58	42	34	29	45
1903	29	17	16 <sup>1</sup>	42	54	71	72	73	58	54	37 <sup>1</sup>	23	46
1904	20 <sup>1</sup>	32	36	50	52	62	73	67 <sup>1</sup>	54	44	33	23	46
1905	28	32	41	47	50	62	.....	64 <sup>1</sup>	60 <sup>1</sup>	40 <sup>1</sup>	.....	17 <sup>1</sup>	.....
1906	22	26 <sup>1</sup>	34 <sup>1</sup>	47	54	59	72	70	60 <sup>1</sup>	44	32	31	46
1907	24 <sup>1</sup>	38 <sup>1</sup>	34 <sup>1</sup>	46 <sup>1</sup>	53	56	65	62	56	57	38	31	47
Means	21.8	26.0	32.4	43.5	52.1	61.7	69.7	66.7	56.0	43.2	32.6	24.9	44.2

Extreme values in *italic* type.

<sup>1</sup>No record; mean obtained by applying the departure from the normal at Winnemucca to the normal for the month at Halleck.

Temperature Extremes, 1892 to 1907, Inclusive.

Month.	Maximum.	Year.	Day.	Minimum.	Year.	Day.
January	62	1899	31	—30	1894	9
February	67	1896	.....	—32	1893	1
March	77	1900	31	—12	1906	14
April	88	1895	12	17	1901	4
May	95	1903	31	26	1899	2
June	102	1892	28	26	1906	8
July	109	1901	30	36	1902	2
August	108	1893	3	30	1906	25
September	96	1898	8	12	1895	22
October	84	1892	12	3	1906	23
November	70	1892	5	—18	1896	.....
December	68	1907	6	—31	1895	22



## CLIMATOLOGICAL DATA FOR JUNE, 1908.

Stations	Counties	Elevation (feet)	Length of record (years)	Temperature (degrees Fahrenheit)						Precipitation (inches)				Sky				Other years		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snow (in inches)	Number rainy days	Number clear days	Number partly cloudy days		Number overcast days	Prevailing direction
Northern Section.																				
Battle Mountain	Lander	4,843	38	57.8	-9.0	96	29	30	3	54	.....	.....	.....	.....	.....	23	2	5	.....	Agent So. Pacific Co.
Boowawe	Eureka	1,905	38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Agent So. Pacific Co.
Carlin	Elko	5,232	38	59.3	5.1	96	25	29	3	61	0.89	+0.51	0.79	0.0	8	15	12	3	W	Agent So. Pacific Co.
Clover Valley	Elko	6,000	9	51.9	.....	89	21	29	3	50	0.88	.....	0.16	0.0	1	11	13	6	.....	I. F. Wiseman
Elko	Elko	5,312	38	.....	.....	.....	.....	.....	.....	.....	0.04	.....	0.02	0.0	3	7	9	11	E	Agent So. Pacific Co.
Golconda	Humboldt	4,697	30	61.4	-5.9	91	16	29	1	49	0.80	+0.38	0.10	0.0	3	23	0	7	W	Agent So. Pacific Co.
Halleck	Elko	5,631	16	55.7	-6.0	92	21	28	3	58	0.91	+0.32	0.28	0.0	7	10	19	1	.....	Agent So. Pacific Co.
Humboldt	Humboldt	4,236	37	63.3	-2.5	88	30	31	4	36	.....	.....	.....	.....	.....	11	13	3	NW	Agent So. Pacific Co.
Lovelocks	Humboldt	3,977	16	61.5	-6.3	96	30	35	18	55	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. S. Webb
Mill City	Humboldt	4,391	20	63.2	-4.1	92	30	32	3	30	0.50	+0.43	0.50	5.0	1	11	14	2	N	Agent So. Pacific Co.
Quinn River Ranch	Humboldt	4,850	7	57.2	.....	92	30	28	23	59	0.88	.....	0.36	0.0	8	11	9	10	NW	F. M. Payne
San Jacinto	Elko	.....	4	54.7	.....	89	25	32	23	50	2.06	.....	0.42	T	11	11	5	14	W	Moses Jones
Squaw Valley **2	Elko	5,100	2	57.8	.....	96	26	27	15	58	.....	.....	.....	.....	.....	13	10	7	SE	H. D. Glover
Tecoma	Elko	4,812	31	58.1	-9.5	85	30	32	4	40	2.88	+2.31	1.00	0.0	8	8	2	20	NE	Agent So. Pacific Co.
Wells	Elko	5,631	37	54.2	-10.3	88	25	28	1	57	0.39	0.00	0.39	0.0	1	11	10	9	S	Agent So. Pacific Co.
Winnemucca	Humboldt	4,432	30	58.3	-5.0	91	30	30	2	48	0.80	+0.16	0.71	3.1	4	18	6	6	NE	U. S. Weather Bureau
Means		.....	.....	58.4	.....	.....	.....	.....	.....	.....	1.01	.....	.....	0.7	6	13	9	8	W	.....
Eastern Section.																				
Cherry Creek	White Pine	6,450	0	51.6	.....	88	25	23	27	61	1.09	.....	0.34	0.5	6	3	27	0	SW	J. H. Leishman
Ely	White Pine	6,000	18	56.0	-4.3	85	13	30	4	46	0.68	+0.34	0.55	.....	3	21	6	3	NE	G. C. Hunting
Hamilton	White Pine	7,977	2	43.6	.....	64	25	20	3	37	1.40	.....	0.60	14.0	3	.....	.....	.....	.....	Geo. Allen
Means		.....	.....	50.4	.....	.....	.....	.....	.....	.....	1.06	.....	.....	7.2	4	12	16	2	SW	.....
Central Section.																				
Austin	Lander	6,594	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.13	T	7	9	13	8	N	F. H. Triplett
Eureka	Eureka	6,500	6	56.4	.....	87	25	25	3	44	0.41	.....	0.13	T	7	9	13	8	N	Clay Simms
Millet	Nye	.....	1	57.9	.....	90	30	28	3	51	0.00	.....	0.00	0.0	0	20	9	1	W	Fred J. Jones
Potts	Nye	6,990	16	54.4	-10.1	89	30	19	3	56	T	-0.17	T	0.0	0	6	9	15	N	Miss Mamie Potts
Means		.....	.....	56.2	.....	.....	.....	.....	.....	.....	0.15	.....	.....	0.0	2	12	10	8	N	.....
Western Section.																				
Carson Dam	Churchill	4,032	2	65.5	.....	93	30	38	22	47	T	.....	T	0.0	0	.....	.....	.....	.....	J. M. Heizer
Fallon	Churchill	3,965	4	62.8	.....	93	30	35	3	48	0.05	.....	0.03	0.0	2	26	3	1	NW	U. S. Reclamation Serv.
Fernley	Lyon	4,200	1	61.1	-8.9	95	30	35	2	51	0.03	-0.17	0.03	0.0	1	23	6	1	NW	U. S. Reclamation Serv.
Gardnerville	Douglas	4,830	9	60.0	.....	95	26	27	3	57	0.00	.....	0.00	0.0	0	18	6	6	SE	William Dangberg
Leetville	Churchill	4,020	2	64.0	.....	94	30	37	3	45	T	.....	T	0.0	0	26	4	0	W	U. S. Reclamation Serv.
Lewers' Ranch	Washoe	5,500	21	57.1	-3.0	86	29	25	3	45	0.16	-0.18	0.15	0.1	2	14	13	3	.....	Ross Lewers
Reno	Washoe	4,532	38	59.4	-1.6	91	30	32	22	46	0.24	0.00	0.17	T	3	17	10	3	W	Section Center
Soda Lake	Churchill	4,005	2	65.0	.....	95	30	36	3	49	0.00	.....	0.00	0.0	0	18	9	3	NW	U. S. Reclamation Serv.
Wabuska	Lyon	4,347	6	60.4	.....	92	30	28	3	50	0.91	.....	0.46	0.0	2	13	17	0	NW	J. G. Young
Means		.....	.....	62.0	.....	.....	.....	.....	.....	.....	0.15	.....	.....	0.0	1	19	9	2	NW	.....
Southern Section.																				
Columbia	Esmeralda	5,750	2	63.0	.....	90	28	28	3	41	T	.....	T	0.0	0	25	3	2	S	Will W. Thompson
Geyser	Lincoln	.....	4	62.5	.....	95	26	22	18	57	0.00	.....	0.00	0.0	0	26	4	0	S	Mrs. J. F. Wambolt
Jean	Lincoln	2,074	1	87.4	.....	116	30	68	1	20	0.00	.....	0.00	0.0	0	29	1	0	W	Agent Salt Lake Route
Las Vegas	Lincoln	2,033	1	74.2	.....	108	30	35	1	58	T	.....	T	0.0	0	25	5	0	N	Agent Salt Lake Route
Logan	Lincoln	1,700	2	76.1	.....	107	28	40	1	51	T	.....	T	0.0	0	19	11	0	SW	Chas. Arney
McAfee's Ranch	Esmeralda	4,835	5	53.6	.....	88	30	18	1	56	0.30	.....	0.30	0.0	1	25	2	3	NE	W. T. Carter
Mina	Esmeralda	4,600	2	64.6	.....	99	28	31	1	54	0.00	.....	0.00	0.0	0	17	9	4	S	Agent So. Pacific Co.
Palmetto	Esmeralda	6,780	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Wm. Oothout, Jr.
Panaca	Lincoln	4,750	0	74.3	.....	95	30	42	2	36	0.09	.....	0.09	0.0	1	.....	.....	.....	S	F. E. Edwards
Tonopah	Nye	6,090	2	61.2	+1.0	85	25	26	3	31	T	-0.44	T	0.0	0	13	17	0	W	U. S. Weather Bureau
Means		.....	.....	68.5	.....	.....	.....	.....	.....	.....	0.04	.....	.....	0.0	0	22	7	1	S	.....
State Means and Extremes.		.....	.....	60.8	-2.3	116	30	18	1	61	0.47	+0.05	1.00	0.6	3	17	9	4	W	.....
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REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station indicates the number of days missing from the record; for instance, "X" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means.

†Postoffice—Wells. †Postoffice—Franktown. ‡Postoffice—Amos. \*Postoffice—Dyer. †Postoffice—Fallon. \*\*Postoffice—Golconda. ††Postoffice—Hazen. ††Postoffice—Wadsworth.

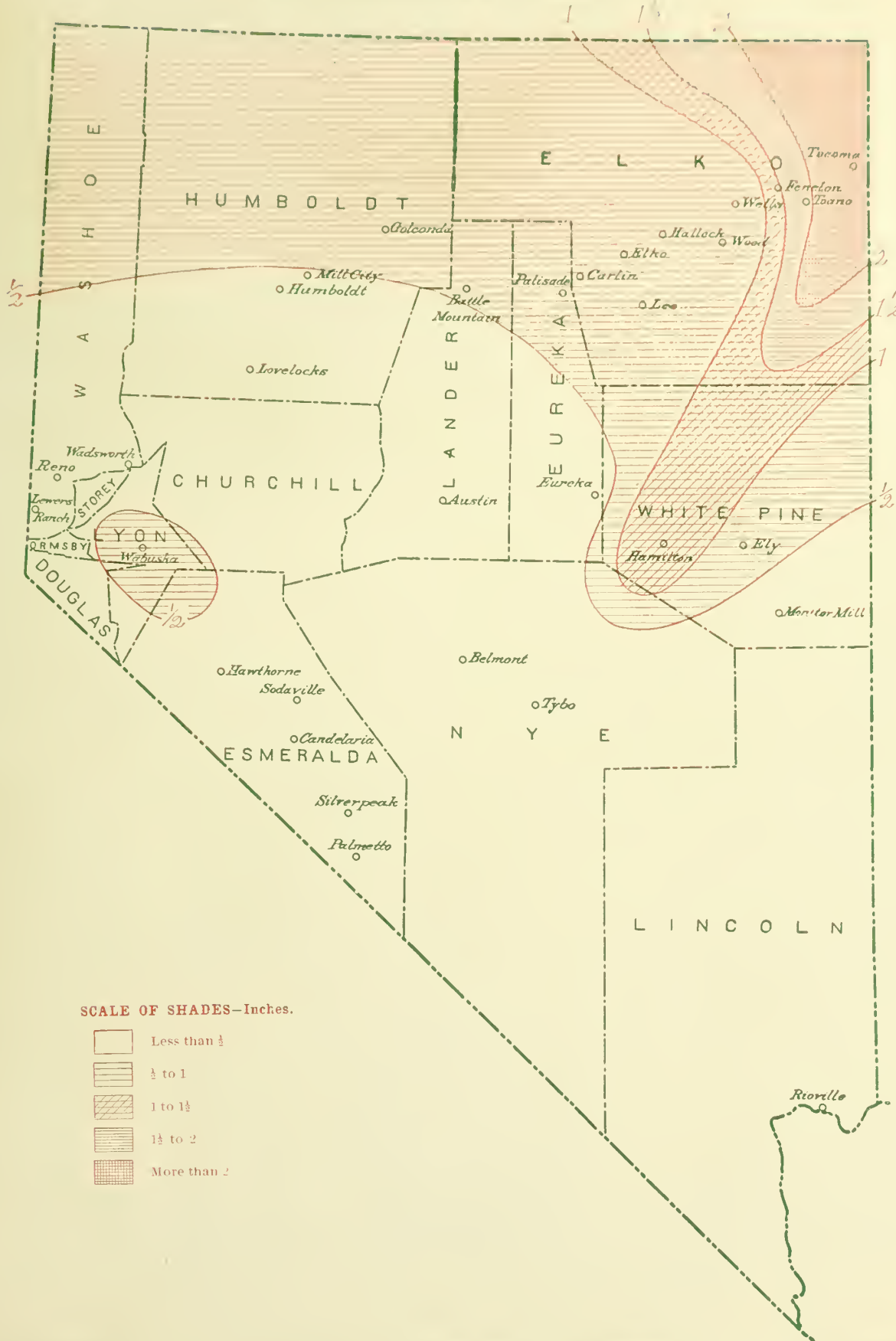


Day of Month.

Stations.		Day of Month.												Month.																		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Battle Mountain	Max.	60	58	58	52	58	62	76	78	80	78	80	90	90	90	91	75	65	75	75	78	65	77	85	90	91	85	85	90	96	96	96
	Min.	38	38	30	32	34	36	38	40	38	42	42	45	40	40	45	40	35	42	39	38	38	35	37	38	38	40	37	40	43	43	---
Beowawe	Max.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Min.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Carlin	Max.	72	71	50	61	77	75	77	86	89	79	83	87	89	88	82	78	65	79	75	76	69	76	90	91	96	93	84	89	94	95	---
	Min.	32	41	29	36	29	31	36	42	40	44	38	40	41	41	46	43	43	39	41	43	47	43	29	35	38	39	34	34	35	43	---
Carson Dam	Max.	73	74	40	53	52	60	68	74	78	76	77	80	85	87	81	78	70	49	75	75	67	86	86	90	91	84	79	84	91	93	---
	Min.	48	44	53	52	50	48	59	74	78	76	77	78	80	82	74	73	62	41	48	52	46	38	35	55	55	50	51	49	50	65	---
Cherry Creek	Max.	59	57	47	53	61	64	69	74	78	76	77	79	83	73	76	73	62	49	72	72	64	80	85	88	88	79	75	78	81	82	---
	Min.	33	33	27	34	27	26	31	38	32	33	34	34	38	39	41	41	37	32	27	28	35	31	24	26	34	36	26	38	34	---	
Clover Valley	Max.	62	62	32	37	49	63	66	73	76	76	77	79	83	73	76	73	62	48	72	72	64	80	85	88	88	79	75	76	81	82	---
	Min.	32	32	27	32	32	34	38	42	44	44	45	48	49	49	49	49	45	33	27	28	35	31	24	26	34	36	26	38	34	---	
Columbia	Max.	71	70	69	66	71	77	77	80	83	82	81	84	84	83	84	82	80	81	80	80	75	82	86	88	86	88	79	75	81	82	---
	Min.	34	47	28	31	36	43	45	48	49	51	52	52	49	54	49	43	43	46	46	48	42	46	46	49	51	46	49	53	46	---	
Ely	Max.	60	55	49	58	62	64	67	70	71	79	80	85	80	85	84	82	80	81	80	80	75	82	86	88	86	86	85	90	86	89	---
	Min.	32	31	50	33	50	32	32	36	40	40	41	43	44	41	45	47	67	74	68	75	77	72	46	49	51	46	49	53	46	---	
Eureka	Max.	64	61	45	63	64	62	66	76	80	79	76	80	82	84	84	82	73	43	35	34	39	49	82	76	80	83	80	78	85	85	---
	Min.	31	34	25	33	34	35	36	41	40	43	43	42	45	49	44	45	39	31	38	40	36	32	37	47	48	45	36	38	47	41	---
Fallon	Max.	72	57	65	71	73	73	79	80	78	79	86	87	83	84	78	73	63	41	77	73	62	72	86	87	91	83	78	83	91	93	---
	Min.	44	44	35	42	43	49	48	50	48	51	48	53	52	53	51	48	43	46	47	43	43	38	46	52	51	48	45	49	57	47	---
Fernley	Max.	71	66	61	67	73	73	74	82	85	80	83	86	86	84	84	79	70	74	71	64	72	89	82	92	92	81	80	86	93	95	---
	Min.	46	35	36	40	47	48	44	49	56	53	50	57	56	58	58	52	49	45	49	45	38	38	57	58	54	50	49	47	65	49	---
Gardnerville	Max.	70	76	74	70	73	79	81	80	82	83	85	88	84	80	83	81	80	80	80	74	76	80	87	86	85	87	90	87	90	94	---
	Min.	33	43	27	32	38	39	41	38	39	38	42	44	45	41	36	37	34	39	48	30	42	35	41	39	38	37	30	31	37	40	---
Geyser	Max.	74	70	78	80	82	82	90	79	80	76	85	85	88	89	90	92	79	80	90	92	90	93	89	90	95	87	80	79	77	83	---
	Min.	30	34	45	45	40	45	48	40	39	45	40	43	46	40	49	44	28	42	40	44	44	40	44	43	51	49	30	32	40	41	---
Golconda	Max.	63	74	74	63	74	72	84	83	87	72	83	89	87	90	90	91	88	83	80	82	80	82	85	88	87	86	84	86	87	89	---
	Min.	29	40	39	31	38	35	39	38	45	39	43	42	44	44	43	43	43	40	39	40	42	46	42	41	42	41	42	41	43	41	---
Halleck	Max.	63	52	63	67	68	74	81	77	75	81	86	84	73	74	71	58	70	71	73	62	69	80	87	92	79	77	80	88	89	90	---
	Min.	33	40	28	36	31	30	33	36	40	50	38	42	38	39	38	41	43	39	40	44	46	36	37	34	36	37	30	31	37	40	---
Hamilton	Max.	38	37	32	41	51	38	45	57	57	55	50	60	62	51	46	56	32	32	24	40	33	34	35	57	64	59	64	61	54	59	---
	Min.	32	29	32	40	32	37	40	35	43	30	35	41	45	42	32	32	32	24	40	33	34	24	35	44	46	38	27	28	45	39	---
Jean	Max.	80	85	88	90	91	92	93	98	88	90	92	90	96	98	94	88	96	92	90	95	92	96	98	100	102	102	102	104	105	108	---
	Min.	68	70	74	76	79	80	80	78	76	79	80	81	84	80	79	76	70	76	76	76	76	76	76	86	86	85	87	88	98	94	---
Las Vegas	Max.	86	85	83	88	90	91	96	103	99	99	101	102	101	101	98	98	91	95	91	95	97	97	93	93	95	95	107	105	108	108	---
	Min.	35	41	43	42	40	45	44	45	49	66	64	53	60	58	51	57	55	63	68	60	67	64	60	56	60	57	49	48	50	52	---
Leeville	Max.	72	63	60	67	73	74	76	80	84	86	81	86	89	84	85	80	77	77	76	67	67	67	86	91	92	83	79	85	91	94	---
	Min.	45	37	42	46	49	45	50	49	45	50	54	57	50	51	44	49	52	45	44	49	46	48	46	51	51	45	47	49	60	---	
Levers' Ranch	Max.	54	56	57	67	75	74	72	76	80	75	82	83	86	75	74	72	65	70	67	60	65	82	82	82	82	82	84	86	86	86	---
	Min.	33	25	32	36	41	39	38	40	40	43	44	47	46	46	56	40	42	35	41	45	37	31	37	45	42	38	44	44	44	---	
Logan	Max.	85	87	76	83	89	91	96	101	101	101	98	103	102	100	98	99	97	91	99	98	95	97	95	95	104	106	103	107	104	107	---
	Min.	40	61	48	42	43	50	53	52	53	58	60	54	54	58	50	53	60	56	51	56	56	69	69	54	55	65	63	53	57	58	---
McAfee's Ranch	Max.	66	72	62	68	72	73	76	80	84	83	80	85	82	80	78	77	77	82	82	82	82	85	82	85	82	83	83	87	88	---	
	Min.	18	29	22	25	24	22	24	25	40	39	30	30	32	31	31	30	33	29	28	29	28	19	28	29	27	39	34	33	36	41	---
Millet	Max.	69	60	50	65	70	68	74	81	87	82	77	83	81	82	82	77	72	78	73	81	72	83	85	88	85	82	84	83	87	88	---
	Min.	41	40	28	34	29	31	34	37	42	43	37	36	40	42	42	53	46	36	40	40	42	42	42	42	37	37	34	33	36	41	---
Mina	Max.	64	63	66	64	67	72	84	86	86	91	88	96	94	89	91	89	87	86	87	86	87	86	87	86	87	86	87	86	87	86	---
	Min.	31	34	32	31	35	32	36	34	38	42	41	43	40	41	42	42	42	42	40	40	42	42	42	42	42	37	37	34	33	36	---
Potts	Max.	67	57	47	57	64	64	72	78	82	74	80	83	81	82	75	74	78	66	75	74	68	69	83	84	86	81	79	81	87	89	---
	Min.	34	37	19	35	38	35	34	36	36	36	35	38	38	36	37	41	36	28	32	33	34	28	27	34	37	38	32	35	35	40	---
Quinn River Ranch	Max.	71	64	60	65	69	72	74	80	84	77	82	85	89	82	80	74	64	60	64	60	61	71	86	91	89	78	85	88	92	90	---
	Min.	42	31	32	40	39	39	33	35	39	50	40	50	40	50	47	39	45	31	35	34	40	31	36	32	36	36	33	35	40	43	---
Reno	Max.	69	52	58	65	71	71	75	78	80	76	79	83	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	---
	Min.	43	33	33	36	40	45	44	46																							



# TOTAL PRECIPITATION FOR JUNE, 1908.





## DAILY PRECIPITATION FOR JUNE, 1908.

Stations.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Northern Section.																																	
Battle Mountain			0.04	0.02																													
Beowawe																																	
Carlin	T	0.02	T	0.10		0.06			0.01	0.02	T					0.09	0.20	0.39															0.89
Clover Valley		0.11	0.28													0.46					0.03												0.88
Elko		0.40	0.10		T											0.01	0.02			0.01												0.04	
Golconda									0.30																								0.80
Halleck			0.08	0.15		0.20	T		T						0.18	0.03	0.28															0.94	
Humboldt	0.02																																
Lovelocks																																	
Mill City																																	
Paradise Valley																																	
Quinn River Ranch		0.16	0.36	0.03					0.20						0.03	0.01	0.01																0.50
San Jacinto	0.05	0.26	0.02	0.42		0.03	0.16	0.02	0.14					0.35	0.05	0.10	0.37		0.08													0.88	
Squaw Valley																																	2.06
Tecoma	0.50	1.00	T	0.15	T	T	0.50	T	T	0.10	T	T	T	T	0.02	0.60	0.01	T	T	T												2.88	
Wells		0.39	T																													0.39	
Winnemucca		0.03	0.71			T			0.02					T	T	0.04				T												0.80	
Eastern Section.																																	
Cherry Creek	0.02	0.34	0.14								T	T	T																			1.09	
Ely	0.03	0.55	0.10			T																										0.68	
Hamilton	0.60		0.60	0.20																												1.40	
Central Section.																																	
Austin																																	
Eureka	0.10	0.13									0.02	0.06	T	T	0.03		0.05															0.44	
Millett																																0.00	
Potts			T			T																											T
Western Section.																																	
Carson Dam																																	
Fallon		T	0.02											T																			T
Fernley		0.03							T						0.03																		0.05
Gardnerville														T																			0.03
Leetville			T																														0.00
Lewers' Ranch														T																			T
Reno	0.01																																0.16
Soda Lake		0.17	T								T			0.01	0.06						T											0.24	
Wabuska												0.45	T	0.46		T																	0.00
Southern Section.																																	
Columbia																																	T
Geyser																										</							

T indicates trace. \* Amount included in that of the following day.

CARSON CITY, NEVADA:  
 STATE PRINTING OFFICE, -  
 J. G. McCARTHY, SUPT.



1908



U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR JULY, 1908.

NEVADA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

IN COOPERATION WITH THE

NEVADA STATE WEATHER SERVICE

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

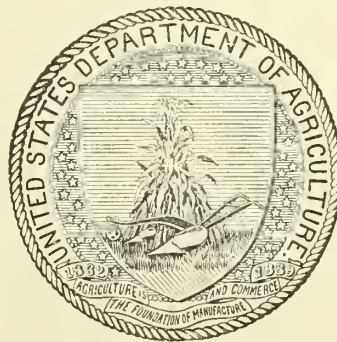
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

HARRY O. GEREN

SECTION DIRECTOR

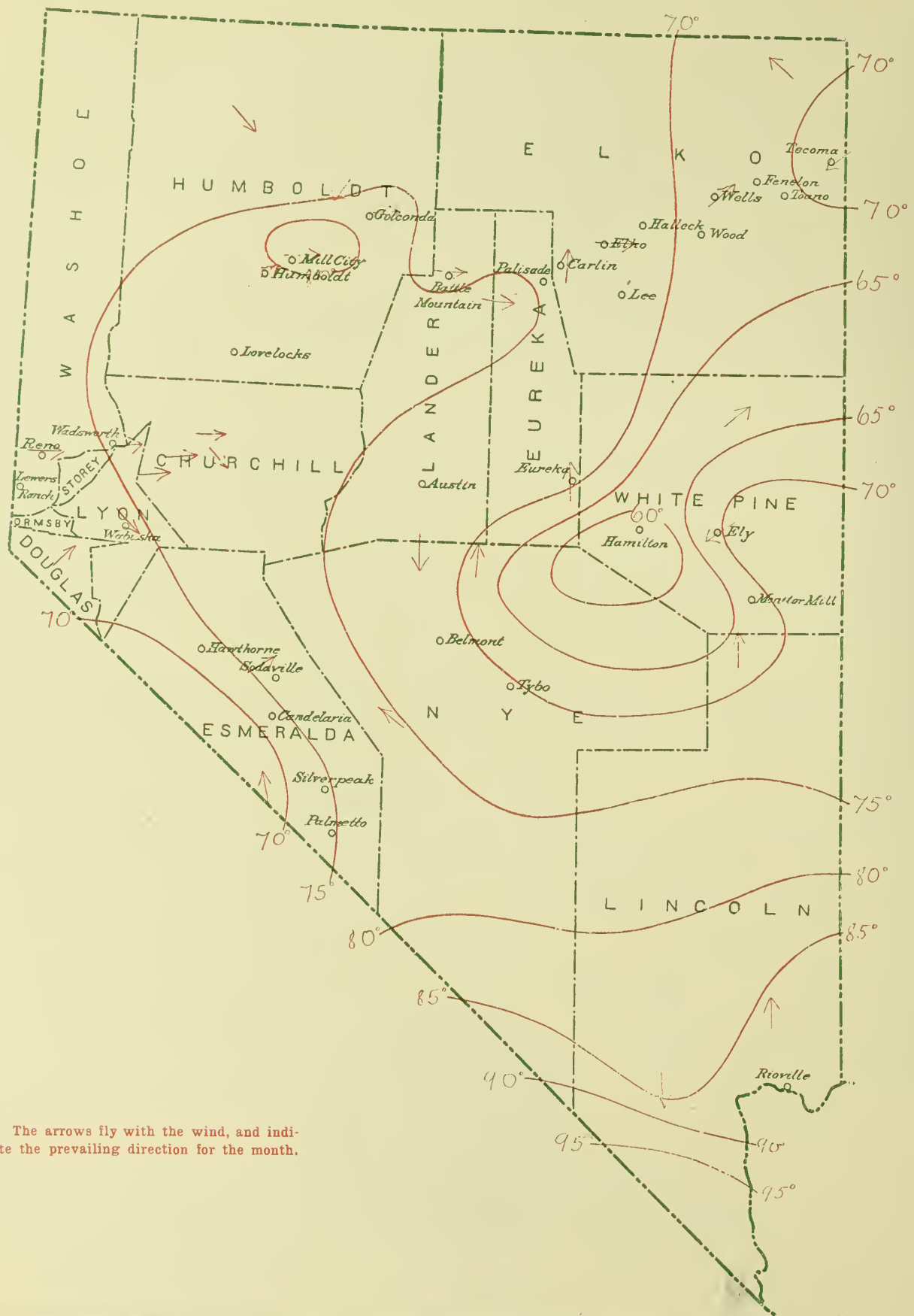


CARSON CITY, NEVADA:

September 1, 1908.



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTION FOR JULY, 1908.



The arrows fly with the wind, and indicate the prevailing direction for the month.



# U. S. DEPARTMENT OF AGRICULTURE, CLIMATOLOGICAL SERVICE

OF THE  
**WEATHER BUREAU.**  
CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,  
HARRY O. GEREN, Section Director.

VOL. XXII.

RENO, NEVADA, JULY, 1908.

No. 7.

## GENERAL SUMMARY.

The weather was very warm during the month, the mean temperature for the State being the third highest on record. There were no decided periods of cool weather, the nearest approach to such being on the 1st, and again on the 14th, 15th, 16th, and 17th, when nearly normal temperatures prevailed. The temperature rose above 90° on a great majority of the days, except at the stations of highest altitude. Daily maximum temperatures of 100° and higher occurred every day at Jean and Logan, and every day but two at Las Vegas, these places all being in Lincoln County. This feature, however, is not very unusual for those places during July.

The precipitation was very nearly normal. It was generally heaviest in the higher altitudes of the eastern and central sections, and was quite well distributed thruout the month. Over the northern and western sections it was confined to the two periods from the 7th to the 14th and from the 20th to the 28th, while over the southern section the showers occurred from the 11th to the 13th and from the 22d to the end of the month.

### Temperature.

The mean temperature for the State was 74.3°, which is 3.4° higher than the normal for the month, and 5.1° higher than the mean for the corresponding month of 1907. The highest monthly mean temperature was 95.0°, at Jean, Lincoln County; the lowest was 56.6°, at Hamilton, White Pine County. The difference in elevation between these two stations is more than one mile. The highest temperature reported was 116°, at Jean, and the lowest was 32°, at Cherry Creek, White Pine County, Geyser, Lincoln County, and McAfee's Ranch, Esmeralda County. The greatest daily range was 62°, at Cherry Creek, on the 21st, the temperature ranging on that day from 98° to 36°.

### Precipitation.

The average amount for the State was 0.42 inch, which is 0.07 inch greater than the normal for the month, and 0.36 inch greater than the average for the corresponding month of 1907. The greatest monthly amount was 1.78 inches, at Panaca, Lincoln County, while there was none at all at Soda Lake, Churchill County. The greatest amount

recorded in twenty-four hours was 0.98 inch, at Millett, Nye County, on the 25th. The average number of days with 0.01 inch or more of precipitation was 3.

### Wind.

The prevailing direction was west. The average hourly velocity at Reno was 5.3 miles; at Tonopah it was 7.4 miles, and at Winnemucca it was 5.0 miles. The maximum velocity for a period of five minutes at Reno was at the rate of 36 miles per hour, southwest, on the 19th; at Tonopah it was 32 miles per hour, west, on the 8th, and at Winnemucca it was 30 miles per hour, south, on the 8th.

### Sunshine and Cloudiness.

The average number of clear days was 18, partly cloudy days 10, and cloudy days 3.

## COMPARATIVE STATE DATA FOR JULY.

Year.	Temperature.			Average precipita- tion.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1889	75.5	119	40	0.17	1	29	1	0	S
1890	74.0	118	28	0.15	1	27	4	0	SW
1891	70.4	102	26	0.53	3	20	8	3	S
1892	70.6	115	30	0.67	1	28	2	1	W
1893	70.3	110	24	0.40	2	24	5	2	SW
1894	71.7	108	32	0.75	5	21	8	2	S
1895	62.9	109	14	0.13	1	21	6	4	W
1896	72.7	112	33	0.79	2	22	6	3	W
1897	69.4	116	25	0.28	1	26	3	2	SW
1898	73.5	114	30	0.12	1	23	6	2	W
1899	72.6	106	34	0.14	2	22	5	4	W
1900	70.6	113	33	0.37	1	23	4	4	W
1901	70.8	109	31	0.31	2	21	6	4	SW
1902	67.9	116	25	0.44	2	21	5	5	SW
1903	65.4	111	26	0.01	1	27	3	1	SW
1904	68.7	110	30	0.51	3	19	8	4	SW
1905	72.1	109	31	0.03	1	24	5	2	SW
1906	74.7	114	32	0.68	4	17	9	5	W
1907	69.2	113	27	0.06	1	22	6	3	S
1908	74.2	116	32	0.42	3	18	10	3	W
Entire period	70.9	119	14	0.35	2	22	6	3	SW

## MISCELLANEOUS PHENOMENA.

*Hail*—Eureka, 4th; Reno, 12th.

*High Winds*—Cherry Creek, 6th; Clover Valley, 21st; Columbia, 11th, 13th; Las Vegas, 11th; Leetville, 8th, 11th; Reno, 19th; San Jacinto, 13th; Tonopah, 8th; Winnemucca, 8th.

*Thunderstorms*—Carlin, 7th, 8th, 9th, 13th, 25th; Cherry Creek, 4th, 8th, 9th, 12th, 13th, 20th, 23d, 31st; Clover Valley, 7th, 9th, 22d; Columbia, 12th; Eureka, 4th, 8th, 12th, 22d, 31st; Fernley, 11th, 12th; Gardnerville, 8th, 9th, 10th, 11th, 22d; Hamilton, 12th, 13th, 22d, 25th, 28th, 31st; Lewers' Ranch, 9th, 10th, 12th; Millett, 12th, 25th; Mina, 5th; Panaca, 13th, 21st, 24th, 25th; Potts, 6th, 7th, 8th, 9th, 10th, 12th, 13th, 19th, 25th, 26th, 28th, 31st; Reno, 1st, 8th, 9th, 11th, 12th, 26th, 28th; Tonopah, 11th, 12th, 25th, 26th, 27th, 28th, 29th, 31st; Wabuska, 7th, 8th, 10th, 11th, 12th.



19th, 26th, 28th, 29th; Winnemucca, 8th, 11th, 13th, 14th, 21st.

### CORRECTION.

June, 1908, page 45: Potts mean temperature, published 54.4, should be 54.6; page 46, Potts maximum temperature on the 3d should be 57, and the monthly mean maximum should be 75.0.

[These were not typographical errors.—PRINTER.]

### CLIMATOLOGY OF TECOMA, NEVADA.

Tecoma is situated in the northeastern portion of Elko County, almost on the border line between Nevada and Utah. The latitude is  $41^{\circ} 18'$ , longitude  $114^{\circ} 7'$ , and its elevation 4,812 feet. The country in the immediate vicinity is generally level, but there are mountains within three miles of the station. Observations have been taken from 1878 to the present time, but previous to 1889 the detailed record is not available. From 1889 to 1907, inclusive, the record is fairly complete, except for two considerable interruptions during the years 1900 and 1904, especially in the temperature data. No attempt was made to supply the missing temperature data by interpolation because of the absence of records from a station sufficiently near. The station has always been located at the depot of the Southern Pacific Company, and the station agent has acted as the observer. The temperature record was obtained from readings of an ordinary thermometer at 7 a. m., 2 p. m. and 9 p. m. until 1903, at which time standard maximum and minimum thermometers were supplied by the Weather Bureau.

January is the coldest month, the normal temperature being  $22.4^{\circ}$ , and July is the warmest month, with a normal of  $74.2^{\circ}$ . The warmest month ever recorded was July, 1889, the mean for that month being  $82.7^{\circ}$ ; the coldest was January, 1898, when the average temperature was only  $13.4^{\circ}$ . These records give a difference of  $69.3^{\circ}$  between the mean temperatures of the warmest and the coldest months on record. The highest temperature ever observed was  $111^{\circ}$ , on August 2, 1898, and the lowest was  $15^{\circ}$  below zero, in February, 1890, making a range of  $126^{\circ}$  at the station during the length of the record. Freezing temperatures have been recorded during every calendar month.

The average annual amount of precipitation is 6.47 inches, the greatest monthly normal being in May, 0.94 inch, while the least is in July, with 0.16 inch. There is a slow increase in the normal amounts from July to January, then a slight decrease during February and March, then an increase to the maximum for the year in May, and finally a rapid decrease to the minimum in July. The wettest year was 1906, and the driest was 1899, the two totals being 13.64 inches and 2.60 inches, respectively. The greatest amount of precipitation in one month was 3.68 inches, in December, 1891, and there has been at least one month without appreciable precipitation in every year, except 1905 and 1906. The longest

period without rain was during the four months from July to October, inclusive, 1903.

The following tables give all available data:

### Monthly and Annual Precipitation.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1889	0.00	0.60	1.00	0.70	0.50	0.00	0.00	0.30	1.00	0.40	0.00	0.15	.....
1890	1.30	0.15	1.40	0.25	0.70	0.60	0.00	0.39	0.00	0.13	3.68	12.98	.....
1891	0.00	0.30	0.83	1.08	2.50	2.15	0.28	0.32	1.70	0.01	0.13	3.68	5.34
1892	0.05	0.20	1.27	0.25	1.68	0.67	0.32	0.05	0.00	0.00	0.00	0.85	.....
1893	1.45	0.50	0.92	0.35	0.00	0.15	T	0.30	T	0.55	0.50	0.50	5.48
1894	0.78	1.75	T	0.10	0.35	0.27	0.30	0.20	0.10	0.33	0.00	1.30	.....
1895	0.92	0.85	0.15	0.43	0.10	T	T	T	T	0.35	0.32	.....	.....
1896	0.43	0.35	0.45	0.30	1.85	2.98	T	0.20	0.20	0.00	0.40	0.10	7.26
1897	0.44	0.57	0.14	0.50	T	0.00	0.00	T	T	1.43	0.12	0.31	3.51
1898	0.31	0.18	0.22	2.50	1.00	2.00	0.00	0.00	T	0.00	0.76	0.55	7.52
1899	0.40	0.20	0.25	T	0.05	0.10	T	T	0.00	0.50	0.50	0.60	2.60
1900	T	0.20	.....	3.00	T	0.00	T	T	T	T	0.60	0.00	.....
1901	0.20	0.90	0.50	0.60	T	0.00	0.00	0.50	T	2.00	T	0.50	5.20
1902	0.35	0.50	0.60	0.50	0.17	T	0.09	0.00	0.84	T	0.47	T	3.52
1903	0.77	0.33	0.54	T	1.75	T	0.00	0.00	0.00	0.00	0.98	0.05	4.42
1904	.....	.....	.....	1.85	.....	.....	.....	1.10	0.63	1.29	0.00	0.95	.....
1905	0.20	0.48	1.23	0.38	2.91	0.10	0.26	.....	1.62	0.40	1.40	0.40	.....
1906	2.00	1.20	1.10	1.30	1.97	1.28	0.71	1.45	0.69	0.20	1.32	0.42	13.64
1907	2.90	0.43	0.05	T	0.22	0.98	0.02	0.00	0.52	0.30	T	0.30	5.72
Means	0.70	0.57	0.55	0.77	0.94	0.67	0.16	0.25	0.36	0.41	0.42	0.67	6.47

### Monthly and Annual Mean Temperatures.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1889	15	27	49	56	63	76	83	81	64	52	37	32	53
1890	26	36	55	64	65	82	76	66	41	32	24	21	.....
1891	19	22	34	47	60	61	77	74	62	46	34	21	46
1892	20	28	39	44	57	65	76	74	65	43	30	22	47
1893	17	21	32	43	51	.....	72	73	58	42	31	28	.....
1894	20	18	35	46	58	61	73	75	59	46	39	26	46
1895	24	29	37	50	61	65	77	76	64	52	32	24	49
1896	29	32	37	43	49	69	76	71	58	46	30	29	47
1897	24	30	32	44	58	65	69	74	64	45	37	24	47
1898	13	30	35	48	48	58	75	75	57	39	29	14	43
1899	26	26	34	42	47	62	73	63	57	38	31	.....	.....
1900	.....	.....	.....	.....	.....	.....	.....	72	59	45	39	32	.....
1901	30	28	.....	47	53	58	75	75	65	61	44	38	.....
1902	26	35	44	.....	58	66	67	.....	60	47	33	.....	.....
1903	29	12	32	44	52	67	69	70	56	47	33	25	45
1904	.....	.....	.....	47	.....	.....	.....	.....	57	43	31	.....	.....
1905	25	28	39	47	50	64	74	.....	62	40	34	21	.....
1906	23	28	35	50	57	63	74	69	58	46	30	31	47
1907	19	38	38	47	53	55	69	66	56	51	39	27	46
Means	22.4	26.9	36.8	47.1	55.2	63.8	74.2	72.8	60.4	45.8	34.0	26.1	47.1

Extreme values in *italic type*.

### Temperature Extremes, 1889 to 1907, Inclusive.

Month.	Maximum.	Year.	Day.	Minimum.	Year.	Day.
January	58	1895	.....	-14	1907	16
February	60	1902	28	-15	1890	.....
March	72	1895	.....	-3	1903	1
April	85	1897	17	11	1906	4
May	92	1889	.....	23	1903	2
June	107	1900	28	23	1902	2
July	110	1901	7	31	1902	6
August	111	1898	2	22	1904	20
September	98	1902	1	20	1900	26
October	84	1889	.....	2	1905	19
November	72	1894	.....	-6	1896	.....
December	60	1901	23	-9	1905	29



## CLIMATOLOGICAL DATA FOR JULY, 1908.

Stations	Counties.	Temperature (degrees Fahrenheit)										Precipitation (inches)				Sky				Prevailing direction of wind	Observers.
		Elevation feet	Length of record (years)	Mean.	Departure from the normal.	Highest	Date.	Lowest.	Date.	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall in inches	Number rainy days	Number clear days	Number partly cloudy days	Number cloudy days			
Northern Section.																					
Battle Mountain	Lander	4,843	38	72.0	-3.2	102	21	40	15	56	0.09	-0.01	0.06	0.0	2	20	7	4	w	Agent So. Pacific Co.	
Beowawe	Eureka	4,905	38	76.8	-0.1	101	30	42	24	53	0.42	+0.20	0.12	0.0	1	29	0	2	w	Agent So. Pacific Co.	
Carlin	Elko	5,232	38	73.8	5.2	106	10	41	15	61	0.10	-0.07	0.08	0.0	2	17	14	0	s	Agent So. Pacific Co.	
Clover Valley	Elko	6,000	9	69.2		91	11	40	6	45	0.32		0.15	0.0	3	16	14	1		I. F. Wiseman	
Elko	Elko	5,342	38								0.35	+0.09	0.25	0.0	2	7	9	15	w	Agent So. Pacific Co.	
Golconda	Humboldt	1,697	30	76.6	+0.3	102	8	48	1	41	0.20	+0.13	0.20	0.0	1	23	7	1	w	Agent So. Pacific Co.	
Halleck	Elko	5,631	16	70.1	+0.4	100	31	39	6	55	0.54	+0.14	0.25	0.0	3	11	17	3		Agent So. Pacific Co.	
Humboldt	Humboldt	4,236	37	76.4	+2.4	97	31	52	6	39	T	-0.04	T	0.0	0	16	13	2	sw	Agent So. Pacific Co.	
Lovelock	Humboldt	3,977	16																	G. S. Webb	
Mill City	Humboldt	4,391	20	80.6	+4.8	98	11	60	6	30	T	-0.06	T	0.0	0	29	1	1	w	Agent So. Pacific Co.	
Quinn River Ranch	Humboldt	4,850	7	73.3		105	31	41	17	59	0.23		0.23	0.0	1	23	5	3	nw	F. M. Payne	
San Jacinto	Elko		4	69.0		95	12	36	11	52	0.11		0.06	0.0	2	22	2	7	se	Moses Jones	
Squaw Valley**2	Elko	5,100	2																	H. D. Glover	
Tecoma	Elko	4,812	31	70.8	-3.4	97	10	41	17	56	0.10	-0.06	0.10	0.0	1	16	6	9	ne	Agent So. Pacific Co.	
Wells	Elko	5,631	37	69.8	-0.4	100	11	36	2	59	0.39	+0.16	0.39	0.0	1	22	5	4	sw	Agent So. Pacific Co.	
Winnemucca	Humboldt	4,432	30	74.0	+2.4	98	31	48	15	43	0.29	+0.12	0.25	0.0	4	23	6	2	ne	U. S. Weather Bureau	
Means				73.3							0.22			0.0	2	19	8	4	w		
Eastern Section.																					
Cherry Creek	White Pine	6,450	0	64.9		98	21	32	1	62	0.53		0.31	0.0	5	8	23	0	sw	J. H. Leishman	
Ely	White Pine	6,000	18	72.8	+5.8	96	21	45	1	41	0.90	+0.37	0.50	0.0	4	26	5	0	ne	G. C. Hunting	
Hamilton F.	White Pine	7,977	2	56.6		73	23	40	1	26	0.97		0.80	0.0	8	12	17	2		Geo. Allen	
Means				64.8							0.80			0.0	5	15	15	1	sw		
Central Section.																					
Austin	Lander	6,594	20																	F. H. Triplett	
Eureka	Eureka	6,500	6	71.3		93	3	45	6	44	1.28		0.71	0.0	8	6	18	7	s	Clay Simms	
Millett	Nye		1	70.8		96	20	37	1	55	1.42		0.98	0.0	3	18	11	2	n	Fred J. Jones	
Potts	Nye	6,990	16	68.4	-2.2	96	10	38	1	52	0.52	-0.14	0.25	0.0	3	9	9	13	s	Miss Mamie Potts	
Means				70.2							1.07			0.0	5	11	13	7	s		
Western Section.																					
Carson Dam	Churchill	4,032	2	78.5		102	31	53	14	41	T		T	0.0	0	16	15	0	w	J. M. Heizer	
Fallon	Churchill	3,965	4	76.4		101	20	51	23	43	0.15		0.13	0.0	2	24	4	3	nw	U. S. Reclamation Serv.	
Fernley	Lyon	4,200	1	79.6	+1.2	101	31	57	6	42	0.07	-0.15	0.07	0.0	1	26	2	3	w	U. S. Reclamation Serv.	
Gardnerville	Douglas	4,830	9	71.2		97	12	41	1	56	0.09		0.05	0.0	3	14	6	11	sw	William Dangberg	
Leetville B.	Churchill	4,020	2	77.8		103	31	51	16	42	T		T	0.0	0	29	2	0	w	U. S. Reclamation Serv.	
Lewers' Ranch	Washoe	5,500	21	71.2	+3.5	101	19	44	14	47	0.25	+0.09	0.25	0.0	1	13	18	0		Ross Lewers	
Reno	Washoe	4,532	38	73.3	+5.8	99	30	48	16	42	1.53	+1.39	0.54	0.0	4	22	8	1	w	Section Center	
Soda Lake	Churchill	4,005	2	79.6		103	31	54	14	41	0.09		0.00	0.0	0	21	7	3	w	U. S. Reclamation Serv.	
Wabuska	Lyon	4,347	6	72.1		95	2	45	23	45	T		T	0.0	0	20	11	0	nw	J. G. Young	
Means				75.5							0.23			0.0	1	21	8	2	w		
Southern Section.																					
Columbia P.	Esmeralda	5,750	2	75.0		96	10	54	1	38				0.0						Will W. Thompson	
Geyser	Lincoln		4	69.4		105	27	32	1	57	0.24		0.18	0.0	4	8	21	2	s	Mrs. J. F. Wambolt	
Jean	Lincoln	2,074	1	95.0		116	16	72	12	34	0.10		0.08	0.0	2	25	0	6		Agent Salt Lake Route	
Las Vegas	Lincoln	2,033	1	84.4		111	21	50	12	53	0.60		0.60	0.0	1	16	5	10	n	Agent Salt Lake Route	
Logan	Lincoln	1,700	2	88.4		113	20	58	1	52	0.04		0.04	0.0	1	14	17	0	s	Chas. Arney	
McAfee's Ranch	Esmeralda	4,835	5	66.0		94	21	32	16	57	1.00		0.40	0.0	5	22	8	1	s	W. T. Carter	
Mina	Esmeralda	4,600	2	81.0		103	25	57	3	44	0.10		0.10	0.0	1	14	15	2	sw	Agent So. Pacific Co.	
Palmetto	Esmeralda	6,780	19																	Wm. Oothout, Jr.	
Panaca	Lincoln	4,750	0	76.2		98	10	49	13	33	1.78		0.43	0.0	8					F. E. Edwards	
Tonopah	Nye	6,090	2	75.2	+8.7	94	20	58	13	28	0.92	+0.61	0.40	0.0	9	16	14	1	se	U. S. Weather Bureau	
Means				79.0							0.60			0.0	4	17	11	3	s		
State Means and Extremes.				74.3	+3.4	116	16	32	1	62	0.42	+0.07	0.98	0.0	3	18	10	3	w		

REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station indicates the number of days missing from the record: for instance, "s" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means.

† Postoffice—Wells. ‡ Postoffice—Franktown. § Postoffice—Amos. \* Postoffice—Dyer. ¶ Postoffice—Fallon. \*\* Postoffice—Golconda. †† Postoffice—Hazen. ‡‡ Postoffice—Wadsworth.

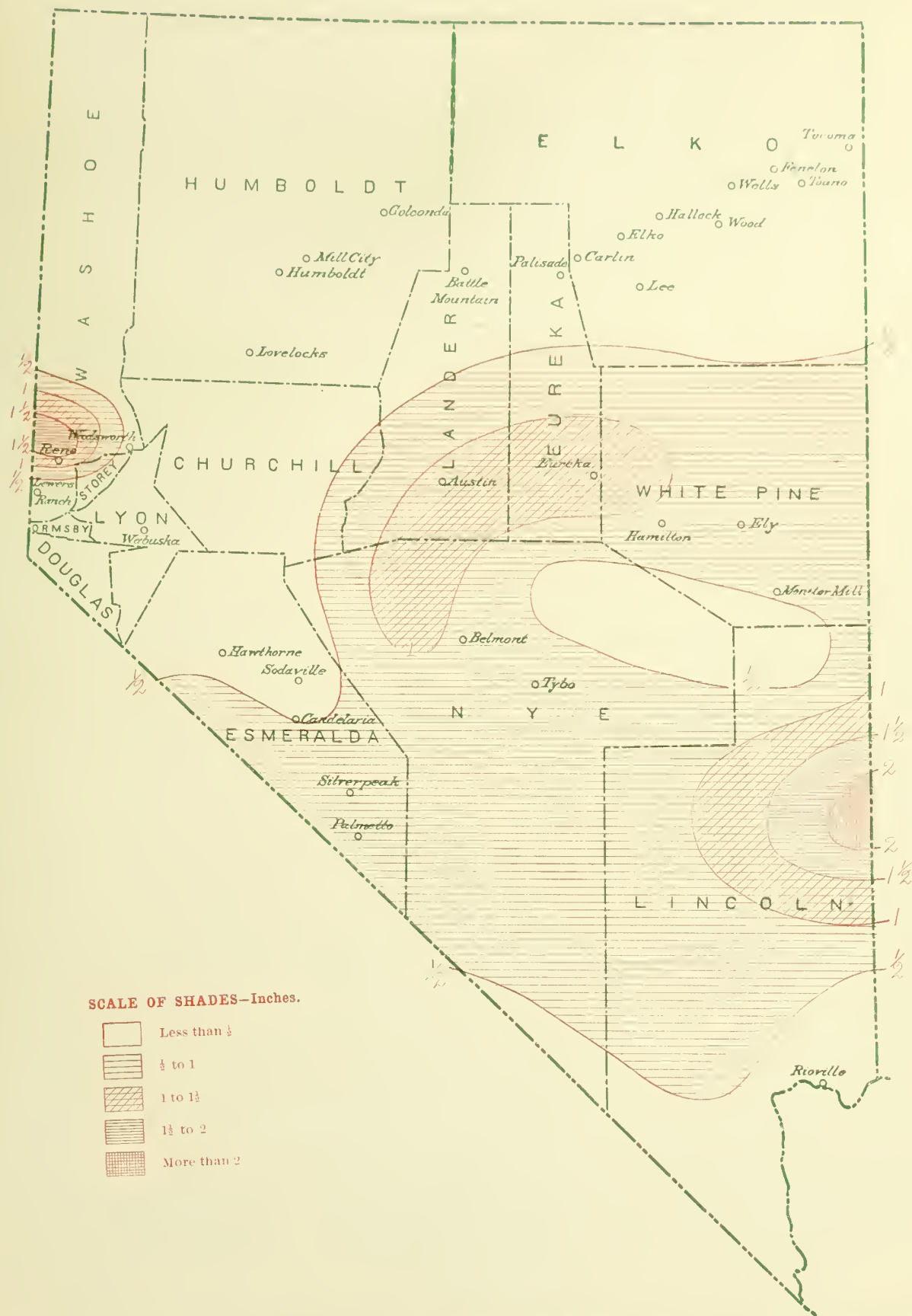


## Day of Mourning

Stations	Day of Month																															Month		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Battle Mountain	Max. 96	100	91	96	94	96	98	96	91	96	96	88	82	84	80	90	96	96	96	98	102	100	98	100	98	100	96	98	100	102	100	102	95.5	
Beowawe	Min. 44	41	48	52	54	52	50	50	50	52	51	41	41	46	40	41	46	48	46	46	50	50	52	48	50	48	44	47	48	50	50	51	48.5	
Carlin	Max. 90	89	63	61	62	61	60	61	70	68	70	61	65	65	65	64	65	66	65	66	67	65	67	65	67	65	68	67	65	72	68	61	92.5	
Carson Dam	Max. 97	102	98	93	95	105	98	98	104	106	104	89	89	91	45	41	41	45	41	41	50	50	41	52	55	40	57	57	53	43	51	101	98.8	
Cherry Creek	Min. 44	42	46	49	44	43	52	50	43	47	52	52	52	54	47	41	41	41	41	41	53	59	50	41	52	55	40	57	57	53	43	51	48.8	
Cherry Creek	Max. 93	95	96	90	91	96	95	96	95	98	96	89	90	87	93	95	98	100	97	95	95	90	94	96	80	94	95	97	98	102	95.9			
Cherry Creek	Min. 36	78	67	63	65	61	62	69	65	62	70	61	61	64	55	59	59	57	66	57	71	66	61	59	67	60	68	68	65	62	62	63	63.1	
Clover Valley	Max. 83	90	88	91	85	87	91	85	83	92	93	81	81	83	85	89	89	87	84	86	94	96	98	91	96	84	86	81	85	90	87	88.7		
Clover Valley	Min. 32	38	33	51	40	51	47	45	42	37	39	38	35	38	35	34	36	34	35	34	42	42	36	42	36	38	41	50	41	40	47	41.1		
Columbia	Max. 46	48	49	49	49	47	52	51	51	57	52	58	48	48	48	46	42	46	46	46	49	50	48	48	48	61	87	87	92	91	94	87.9		
Columbia	Min. 52	52	92	94	93	92	93	92	93	96	95	86	87	86	90	90	90	90	90	92	92	86	86	91	87	87	87	92	92	91	94	94	87.9	
Ely	Max. 54	55	56	59	60	58	58	61	60	60	62	61	61	54	53	53	53	46	46	46	49	50	48	48	48	61	51	51	58	52	51	51	90.1	
Ely	Min. 86	85	90	91	89	90	90	86	86	88	92	88	90	90	90	90	86	86	87	87	94	96	96	96	96	96	96	96	96	96	96	96	91.6	
Eureka	Max. 45	45	50	54	54	52	56	54	52	54	56	53	56	58	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	58.8	
Eureka	Min. 46	51	54	53	49	45	53	61	64	53	52	54	49	54	54	48	50	52	49	57	58	6												
Fallon	Max. 92	95	95	96	88	91	94	93	95	96	96	84	84	86	84	86	89	89	99	98	94	94	98	94	98	94	96	92	95	96	100	93.9		
Fernley	Min. 51	57	61	62	59	58	56	62	57	61	62	61	62	54	54	52	55	58	55	54	50	49	50	48	48	61	87	87	92	91	94	87.9		
Fernley	Max. 95	97	95	96	90	95	99	96	97	99	95	83	89	90	91	92	95	98	99	98	94	96	97	98	96	96	96	96	96	96	96	96	91.6	
Fernley	Min. 61	66	62	63	64	67	67	65	61	67	61	62	60	59	60	58	78	67	57	75	65	62	64	68	58	67	66	66	67	64	66	64	64.0	
Gardnerville	Max. 94	90	96	96	96	96	95	95	90	92	95	96	97	90	89	84	90	89	84	94	90	95	94	90	95	94	95	91	90	94	92	91	97	68.1
Gardnerville	Min. 41	46	47	48	46	49	52	50	45	48	55	41	50	44	50	43	43	46	48	52	52	56	58	58	45	46	50	53	53	56	58	58	49.2	
Geyser	Max. 80	83	78	85	80	76	91	95	96	99	90	95	94	98	90	86	100	101	100	100	99	99	98	95	100	105	100	98	99	96	93	93	49.0	
Geyser	Min. 41	40	40	38	36	43	38	41	45	46	45	46	46	40	48	40	48	51	54	56	49	50	48	53	49	49	49	50	50	50	51	45.8		
Golconda	Max. 92	95	92	91	89	89	97	102	96	97	98	90	86	85	84	87	93	94	93	94	92	97	98	99	92	95	96	98	96	95	95	98	93.8	
Golconda	Min. 48	53	57	56	57	50	55	60	59	56	60	50	50	57	59	60	70	68	67	63	66	65	68	65	65	60	63	60	56	57	57	59	44	
Halleck	Max. 92	93	94	91	87	90	88	86	94	94	98	96	84	90	92	89	93	80	94	96	97	90	93	93	93	91	92	90	92	96	100	92	92.1	
Halleck	Min. 45	45	49	44	45	39	51	51	55	42	47	54	50	51	42	40	40	43	39	42	55	52	49	60	53	53	58	50	48	41	50	48	41	
Hamilton	Max. 66	60	63	69	70	66	70	66	70	66	70	58	58	64	63	54	65	64	57	62	66	64	73	67	57	57	61	57	63	68	59	69	43.5	
Hamilton	Min. 40	51	55	44	41	50	44	50	44	50	55	46	46	54	54	42	42	42	42	53	60	59	54	50	50	51	51	51	51	47	55	49	67.5	
Jean	Max. 105	105	107	104	105	110	103	104	105	106	106	102	104	103	103	107	107	106	109	100	102	104	106	100	102	100	104	100	108	100	100	104	104	104.8
Jean	Min. 85	86	90	88	90	92	92	90	89	90	90	72	72	90	87	116	108	104	90	90	90	84	90	82	80	86	76	76	78	78	78	78	85.3	
Las Vegas	Max. 107	106	107	105	106	107	105	106	107	108	109	106	102	104	103	103	107	107	106	109	110	111	108	103	102	104	99	98	100	102	105	104	105	105.2
Las Vegas	Min. 55	60	63	54	65	56	57	58	63	64	65	60	66	63	64	66	65	66	65	66	62	63	74	67	68	69	63	60	69	66	71	77	63.7	
Leetville	Max. 93	97	96	98	98	92	97	96	96	98	98	88	88	88	88	89	89	89	89	89	93	93	93	93	87	88	87	84	91	91	92	100	99	90.2
Lewers' Ranch	Min. 54	58	60	60	59	63	60	63	62	63	62	61	61	61	51	51	55	57	65	63	64	56	58	65	65	62	63	63	63	63	63	63	60.3	
Lewers' Ranch	Max. 89	91	90	88	89	91	92	92	94	92	92	87	84	80	82	83	88	92	95	101	95	93	87	88	87	84	91	91	92	100	100	99	90.2	
Lewers' Ranch	Min. 47	48	47	50	49	50	55	56	50	52	57	54	51	44	45	44	50	52	54	57	57	62	46	50	54	54	52	53	54	57	61	52	51	
Logan	Max. 110	107	107	107	107	107	108	108	110	109	105	104	102	104	104	104	107	109	113	113	113	110	106	105	102	102	103	103	107	106	106	106	106	106.5
Logan	Min. 58	64	60	61	58	58	64	63	67	70	71	75	77	73	70	80	74	72	71	69	68	72	76	79	68	87	71	74	71	75	78	70	70.3	
McAfee's Ranch	Max. 88	90	89	91	91	89	89	89	89	91	92	92	84	87	84	87	88	86	86	86	91	91	94	91	92	89	84	81	85	88	90	88	87	87
McAfee's Ranch	Min. 41	33	35	38	45	46	35	36	37	38	50	52	44	40	41	32	36	46	41	43	43	46	37	42	44	48	48	48	45	50	68	54	43.4	
Millett	Max. 92	93	94	94	92	92	92	92	94	93	93	86	86	86	86	86	86	86	86	86	90	96	93	90	91	85	79	80	86	92	92	92	90.0	
Millett	Min. 37	49	45	47	55	50	48	49	50	51	53	56	54	50	43	44	52	50	50	57	55	63	49	46	55	57	56	53	58	55	58	58	51.7	
Mina	Max. 101	97	102	101	98	96	101	97	94	99	98	101	102	99	101	102	101	101	98	99	96	96	102	103	101	99	99	101	99	99	98	98	98	99.6
Mina	Min. 62	59	57	64	62	64	60	63	61	61	61	60	62	63	62	60	62	61	61	61	64	64	64	65	64	65	64	65	64	64	63	63	62.5	
Potts	Max. 90	93	90	93	90	91	95	96	93	93	95	80	82	81	80	89	91	85	87	83	95	92	90	90	81	76	85	83	83	90	91	88.1	88.1	
Potts	Min. 38	41	48	45	45	45	46	48	48	45	48	45	52	53	53	55	41	55	45	49	52	52	48	44	44	44	45	45	45	46	46	46	46	46
Quinn River Ranch	Max. 96	96	93	93	85	91	99	98	98	102	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	94.9
Quinn River Ranch	Min. 43	42	64	61	53	54	43	57	50	50	52	64	55	51	53	55	41	55	45	49	52	52	48	44										



# TOTAL PRECIPITATION FOR JULY, 1908.



## SCALE OF SHADES—Inches.

	Less than $\frac{1}{2}$
	$\frac{1}{2}$ to 1
	1 to $1\frac{1}{2}$
	$1\frac{1}{2}$ to 2
	More than 2



## DAILY PRECIPITATION FOR JULY, 1908.

Stations.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Northern Section.																																	
Battle Mountain												0.06																				0.09	
Beowawe												0.42														0.03						0.12	
Carlin						T							0.08	0.02																		0.10	
Clover Valley						T						0.15	0.09							T	0.08	T				T						0.35	
Elko													0.25													0.10						0.20	
Golconda							0.20																									0.20	
Halleck												T	0.25								0.20					0.09						0.51	
Humboldt												T																				T	
Lovelock																																T	
Mill City																																T	
Paradise Valley																																T	
Quinn River Ranch																																T	
San Jacinto									0.05				0.23								0.06	T										0.10	
Squaw Valley																																0.39	
Tecoma										T			T	0.10						T	T	T	T	T	T	T	T					0.29	
Wells				T																												0.10	
Winnemucca							0.02	T				T	0.03	0.22	0.02																	0.23	
Eastern Section.																																	
Cherry Creek																																0.11	
Ely								0.01	T			T								T	T	T	T	T	T	T	T					0.10	
Hamilton							0.80	T				0.20	T								0.02	T	T	T	T	T	T					0.50	
Central Section.																																	
Austin																																0.03	
Eureka																																0.53	
Miller												0.31																				0.90	
Potts								T			T	T	0.02							T												0.97	
Western Section.																																	
Buckskin																																0.02	
Carson Dam								T		T	0.02	T																				T	
Douglas Ranch																																0.57	
Fallon							0.35				0.11	0.11																					0.15
Fernley											0.13																					0.07	
Gardnerville							T				0.07	T								T												0.09	
Leetville								0.02	0.02		T	0.05																				T	
Lewers' Ranch																																0.25	
Reno							0.48					0.25																				1.53	
Smith							T	T		T	T	0.49	T																			0.05	
Soda Lake																																0.00	
Wabuska												T	T							T												T	
Yerington															0.15																	0.15	
Southern Section.																																	
Columbia																																	
Fletcher																																	
Geyser																																	
Jean																																	
Las Vegas																																	
Logan																																	
McAfee's Ranch																																	
Mina																																	
Palmetto																																	
Panaca																																	
Tonopah																																	
* Amount included in that of the following station.																																	
T indicates trace.																																	

T Indicates trace. \* Amount included in that of the following day.

CARSON CITY, NEVADA:



STATE PRINTING OFFICE, J. G. MCCARTHY, SUPT.

1908



51.05  
44 ME

U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR AUGUST, 1908.

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NEVADA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

IN COOPERATION WITH THE

NEVADA STATE WEATHER SERVICE

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

HARRY O. GEREN

SECTION DIRECTOR

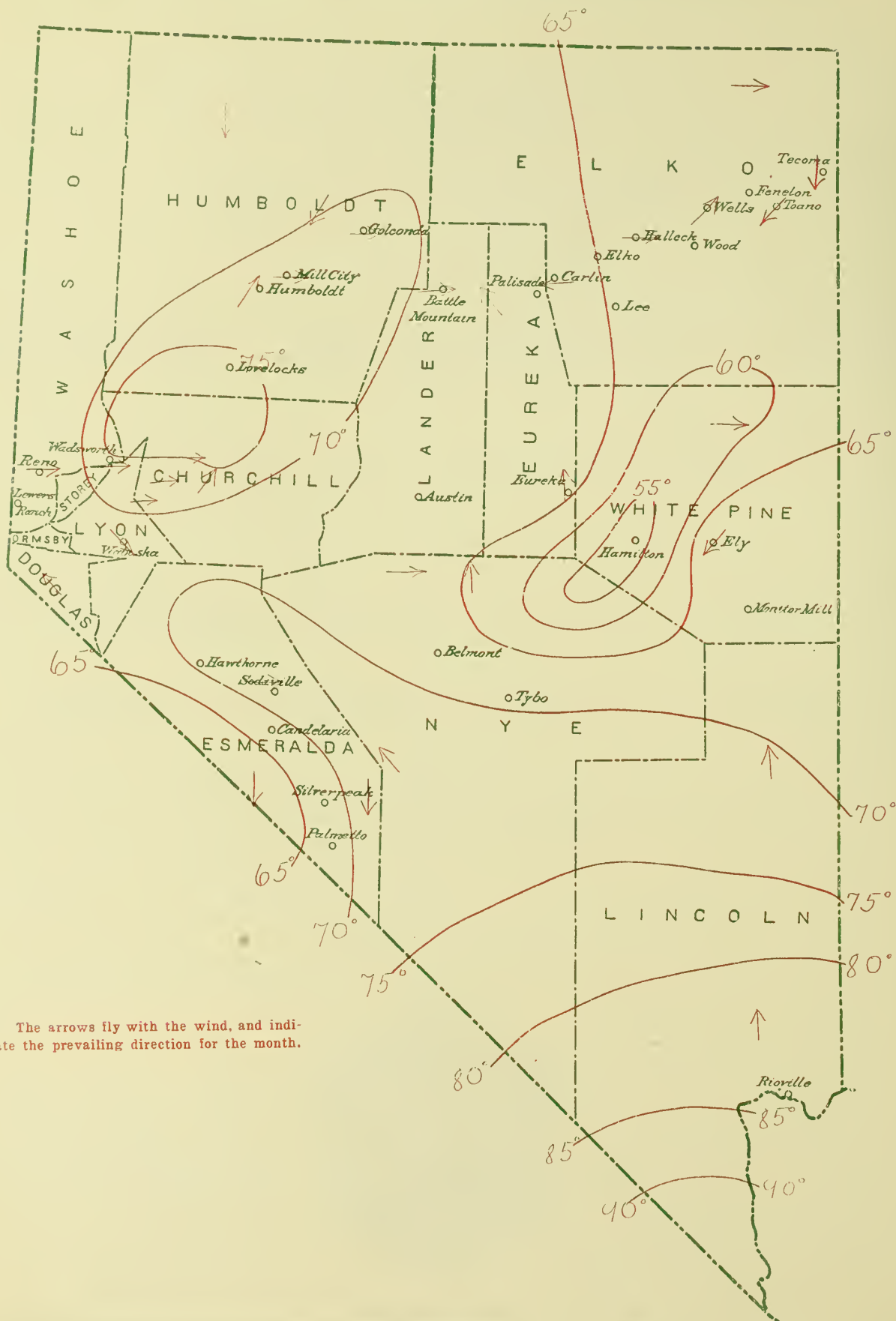


CARSON CITY, NEVADA:

September 30, 1908.



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTION FOR AUGUST, 1908.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**  
 OF THE  
**WEATHER BUREAU.**  
 CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,  
 HARRY O. GEREN, Section Director.

VOL. XXII. RENO, NEVADA, AUGUST, 1908. No. 8.

### GENERAL SUMMARY.

The mean temperature for the State was practically normal, and the average precipitation was below normal. The minimum temperature of 18°, at Geyser on the 17th and 19th, is the lowest on record at any station during August. The month started with temperatures much above the normal, the maximum for the month being recorded during the first three days at about one-half of the stations. It remained above normal until about the 11th, the monthly maximum at the remainder of the stations being recorded mostly on the 7th and 8th. From the 11th to the 17th cool weather prevailed, the lowest temperatures being reached generally on the 14th. Nearly normal conditions then prevailed until about the 21st, after which a sharp decline set in, the month closing with cold weather. Most of the minimum temperatures for the month were recorded on the 30th and 31st. About one-third of the reports show the occurrence of a freezing temperature, most of them coming from stations in the northern half of the State.

The precipitation occurred almost entirely during the first two decades, and was scattered quite well over the State. The first snow of the season was reported on the 14th from Hamilton, White Pine County. It amounted to only a trace.

#### Temperature.

The mean temperature for the State was 69.7°, which is 0.3° lower than the normal for the month, and 2.0° higher than the mean for the corresponding month of 1907. The highest monthly mean temperature was 89.4°, at Jean, Lincoln County; the lowest was 53.7°, at Hamilton, White Pine County. The highest temperature reported was 108°, at Logan, Lincoln County, and the lowest was 18° at Geyser, in the same county, but near the northern border line. The greatest daily range was 64°, at Carlin, Elko County, and Quinn River Ranch, Humboldt County, on the 31st.

#### Precipitation.

The average amount for the State was 0.36 inch, which is 0.22 inch less than the normal for the month, and 0.05 inch greater than the average for the corresponding month of 1907. The greatest monthly amount was 1.35 inches, at Las Vegas, Lincoln County, while seven stations had no precipi-

tation at all. The greatest amount recorded in twenty-four hours was 1.35 inches, at Las Vegas, on the 2d. The average number of days with 0.01 inch or more of precipitation was 2.

#### Wind.

The prevailing direction was west. The average hourly velocity at Reno was 5.4 miles; at Tonopah it was 7.9 miles, and at Winnemucca it was 4.6 miles. The maximum velocity for a period of five minutes at Reno was at the rate of 27 miles per hour, south, on the 2d; at Tonopah it was 37 miles per hour, southeast, on the 20th, and at Winnemucca it was 28 miles per hour, southwest, on the 27th.

#### Sunshine and Cloudiness.

The average number of clear days was 17, partly cloudy days 8, and cloudy days 6.

### COMPARATIVE STATE DATA FOR AUGUST.

Year.	Temperature.			Average precipita- tion.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1889 .....	73.0	117	29	0.52	1	26	5	0	sw
1890 .....	70.1	109	28	2.06	5	15	10	6	sw
1891 .....	72.0	101	25	0.44	2	24	7	0	s
1892 .....	71.2	105	20	0.01	0	25	5	1	s
1893 .....	71.1	104	25	0.26	2	16	7	8	sw
1894 .....	71.0	105	30	0.45	3	18	11	2	sw
1895 .....	70.6	112	24	0.15	1	19	8	4	sw
1896 .....	69.0	109	34	0.82	3	17	7	7	w
1897 .....	73.3	110	31	0.31	2	21	8	2	sw
1898 .....	73.6	112	29	0.45	2	18	8	5	sw
1899 .....	63.7	99	20	0.82	3	19	5	7	w
1900 .....	66.6	110	30	0.04	0	22	6	3	sw
1901 .....	68.3	101	29	2.05	6	17	5	9	sw
1902 .....	68.9	117	30	0.22	2	21	5	5	sw
1903 .....	69.7	114	28	0.10	1	24	6	1	sw
1904 .....	68.6	105	22	1.18	7	12	8	11	sw
1905 .....	70.7	108	31	0.27	1	21	6	4	sw
1906 .....	70.2	111	26	0.80	3	17	8	6	w
1907 .....	67.7	109	22	0.31	2	20	7	4	s
1908 .....	69.7	108	18	0.36	2	17	8	6	w
Entire period .....	70.0	117	18	0.58	2	19	7	5	sw

### CORRECTION.

June, 1908, page 44: The note under the table of monthly and annual mean temperatures in the article on the climatology of Halleek should read Elko instead of Winnemucca. [The above was a typographical error.—PRINTER.]

### MISCELLANEOUS PHENOMENA.

*Frost, Killing*—Cherry Creek, 23d; Geyser, 17th; McAfee's Ranch, 30th; Millett, 31st.

*Hail*—Carlin, 17th; Cherry Creek, 10th; Clover Valley, 10th.

*High Winds*—Carson Dam, 19th, Clover Valley, 9th, 24th, 25th, 26th, 27th, 28th, 29th; Columbia, 12th, 29th; Fallon, 1st, 2d, 4th, 13th, 16th, 19th, 27th; Fernley, 2d, 3d, 12th, 19th, 28th, 29th; Hamilton, 29th; Leetville, 13th, 27th; Millett, 28th; Reno, 2d; San Jacinto, 10th; Tonopah, 20th; Winnemucca, 27th.



*Thunderstorms*—Carlin, 4th, 5th, 17th, 18th, 22d; Cherry Creek, 2d, 4th, 5th, 9th, 14th, 19th, 20th; Clover Valley, 5th, 9th, 10th; Columbia, 1st, 2d, 8th; Eureka, 5th, 16th, 17th, 18th; Gardnerville, 3d; Hamilton, 4th, 5th, 6th, 9th, 10th, 11th, 12th, 13th; Las Vegas, 2d; McAfee's Ranch, 1st, 2d, 3d, 4th, 5th, 8th, 10th, 12th; Millett, 8th, 9th; Potts, 3d, 4th, 9th, 12th, 17th, 20th; Panaca, 21st; Reno, 1st, 2d, 19th, 20th; San Jacinto, 14th; Tonopah, 2d, 3d, 5th, 9th, 20th; Wabuska, 2d, 4th, 5th, 17th, 19th, 21st; Winnemucca, 3d, 13th.

### CLIMATOLOGY OF CARLIN, NEVADA.

Carlin is located in the southwestern portion of Elko County, almost on the border line between that and Eureka County. Its latitude is  $40^{\circ} 43'$ , longitude  $116^{\circ} 16'$ , and its elevation 5,232 feet. There is a broad, low valley in the immediate vicinity and mountainous country in the distance. The detailed record is available back to 1889 only, tho observations were taken for about ten years previous to that time. Even the available portion of the record is rather incomplete, especially during the past six years. Wherever the monthly mean temperature was missing (except during 1902 and 1903) the approximate mean was obtained by applying the departure of the mean for that particular month at Elko, twenty-three miles distant and having practically the same elevation, to the normal for the month at Carlin. No attempt was made to supply precipitation data in this manner, as the method does not operate satisfactorily, especially during the summer months. The temperature record was obtained by readings made at 7 a. m., 2 p. m. and 9 p. m. of an ordinary thermometer. The station has recently been equipped by the Weather Bureau with standard maximum and minimum thermometers, rain gage, and instrument shelter.

The normal for the coldest month, January, is  $21.2^{\circ}$ , and that for the warmest month, July, is  $70.6^{\circ}$ , giving a range of  $49.4^{\circ}$ . The warmest month ever recorded was July, 1889, the mean for that month being  $77.8^{\circ}$ ; the coldest was January, 1890, with a mean of  $9.0^{\circ}$ . This latter, however, is an interpolated value, the coldest by actual record being January, 1889; with a mean of  $10.7^{\circ}$ . Using the actual record, the difference between the mean temperatures of the warmest and coldest months is  $67.1^{\circ}$ . The warmest year was 1901, with a mean of  $49.6^{\circ}$ , and the coldest was 1895, with a mean of  $41.9^{\circ}$ . The highest temperature on record is  $108^{\circ}$ , observed in July, 1889, while the lowest is  $34^{\circ}$  below zero, and occurred in February, 1890. This makes a range of  $142^{\circ}$  for the station during the length of the record. Freezing temperatures have been recorded in every calendar month, except July.

The average annual amount of precipitation is 7.19 inches, the wettest month being December, with a normal of 1.24 inches, and the driest both July and September, the normals for which happen to be 0.11 inch. Comparisons of the wettest and driest years are worthless on account of the small number of years having complete records. The greatest amount of precipitation in any one month was 4.42 inches in December, 1891. Practically every year has had at least one month

without rain, the longest rainless period being the three months from June to August, inclusive, 1893.

The following tables give all available data:

### Monthly and Annual Precipitation.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1889	.....	0.00	1.35	0.23	1.05	1.15	0.00	0.50	0.10	1.60	0.40	3.45	.....
1890	.....	1.45	.....	.....	1.60	0.00	.....	0.30	0.10	0.00	0.00	0.60	.....
1891	0.32	2.02	2.10	0.35	1.70	2.45	0.15	0.00	0.30	0.00	0.30	4.42	14.11
1892	0.60	0.60	1.05	0.20	0.00	1.30	0.00	0.00	0.20	0.00	0.20	1.55	5.70
1893	1.70	0.60	3.25	1.05	0.20	0.00	0.00	0.50	0.00	0.52	0.00	0.55	1.00
1894	1.98	2.40	0.00	0.70	1.75	1.30	.....	0.00	0.10	T	T	1.91	10.14
1895	0.86	1.10	0.45	.....	1.50	T	T	0.50	T	T	0.35	0.50	.....
1896	0.37	0.05	0.98	0.23	1.00	0.00	0.25	T	T	T	0.17	0.50	3.55
1897	T	0.78	1.18	0.25	0.10	0.19	T	0.00	0.00	1.10	0.50	1.61	5.71
1898	T	0.00	0.47	0.75	0.50	0.00	0.00	0.50	0.50	0.00	1.05	0.40	4.17
1899	1.00	0.75	.....	0.15	1.15	0.25	0.15	0.35	0.00	0.87	0.20	0.70	.....
1900	0.25	1.60	0.50	1.50	0.50	T	0.20	0.00	0.00	0.30	0.80	0.20	5.85
1901	1.30	1.90	0.50	0.50	0.00	0.00	0.80	0.20	0.00	0.00	0.25	.....	.....
1902	.....	1.10	0.40	0.60	0.20	0.00	.....	0.00	0.00	.....	.....	0.20	.....
1903	1.55	1.30	.....	.....	0.00	.....	0.00	0.00	.....	0.00	.....	.....	.....
1904	0.18	1.40	1.40	1.01	.....	.....	.....	.....	.....	0.00	.....	.....	.....
1905	.....	.....	.....	.....	.....	.....	T	.....	T	0.20	0.40	1.10	.....
1906	1.90	0.55	0.90	1.15	1.25	1.00	.....	0.00	.....	T	0.40	0.40	.....
1907	1.10	0.19	2.00	3.00	T	0.85	T	0.00	T	.....	T	.....	.....
Means	0.87	0.99	1.10	0.78	0.74	0.53	0.11	0.14	0.11	0.25	0.33	1.24	7.19

### Monthly and Annual Mean Temperatures.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1889	11	22	41	52	60	75	73	72	58	49	34	31	49
1890	9 <sup>1</sup>	23	30 <sup>1</sup>	44 <sup>1</sup>	59	60	70 <sup>1</sup>	70	58	41	27	24	43
1891	16	23	33	45	55	60	72	72	57	41	30	20	44
1892	15	20	35	39	50	59	69	71	62	46	36	29	44
1893	19	20	32	39	50	61	70	71	58	42	28	26	43
1894	21	16	32	42	55	59	66 <sup>1</sup>	70	54	44	35	23	43
1895	20	19	29	45	56	71	63	64	50	40	28	18	42
1896	22	23	32	36	42	62	67	63	54	45	32	30	42
1897	27	28	36	42	60	62	71	72	58	44	38	25	46
1898	12	34	36	45	48	59	72	70	54	39	26	16	43
1899	26	29	31	40	47	56	71	66	63	45	40	32	46
1900	32	34	39	43	57	70	69	66	57	44	36	33	48
1901	27	27	40	43	62	60	72	77	64	48	45	30	50
1902	22	36	36	44	.....	.....	.....	.....	.....	.....	.....	.....	.....
1903	28	15	.....	49	70	73	66	.....	.....	.....	.....	.....	.....
1904	19	34	41	46	48 <sup>1</sup>	63 <sup>1</sup>	72	72	58	49	36	24	47
1905	25	34 <sup>1</sup>	38	44	52	67	76	66 <sup>1</sup>	58	40	33	20	46
1906	27	32	40	49	54	59 <sup>1</sup>	76	72	63 <sup>1</sup>	46	33	33	49
1907	24	34	32	49	52	55	64	63	62	58 <sup>1</sup>	33	34	47
Means	21.2	26.5	34.6	43.7	53.1	62.7	70.6	69.1	58.1	44.8	33.5	26.4	45.4

Extreme values in *italic type*.

<sup>1</sup>No record; mean obtained by applying the departure from the normal at Elko to the normal for the month at Carlin.

### Temperature Extremes, 1889 to 1907, Inclusive.

Month.	Maximum.	Year.	Day.	Minimum.	Year.	Day.
January	53	1900	13	-26	1893	.....
February	72	1898	25	-34	1890	.....
March	73	1898	9	-10	1897	8
April	84	1889	.....	13	1896	.....
May	95	1889	.....	23	1896	.....
June	102	1889	.....	30	1899	20
July	108	1889	.....	40	1903	3
August	102	1897	15	24	1895	28
September	95	1892	.....	0	1895	22
October	91	1895	16	-5	1895	31
November	76	1894	.....	-16	1896	28
December	65	1907	30	-30	1895	29



## CLIMATOLOGICAL DATA FOR AUGUST, 1908.

Stations	Counties	Elevation (feet)	Length of record (years)	Temperature (degrees Fahrenheit).						Precipitation (inches)				Sky				Prevailing direction of wind	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Number rainy days.	Number clear days.	Number partly cloudy days.			Number cloudy days.
Northern Section.																				
Battle Mountain	Lander	4,843	38	68.4	-5.7	96	3	14	30	45	0.00	-0.10	0.00	0.0	0	23	6	2	W	Agent So. Pacific Co. Agent So. Pacific Co. Agent So. Pacific Co. I. F. Wiseman Agent So. Pacific Co.
Beowawe	Eureka	4,905	38	77.0	+1.9	100	1	15	16	41	0.30	+0.16	0.30	0.0	1	17	0	14	SE	
Carlin	Elko	5,232	38	68.2	-0.9	105	1	23	31	61	1.16	+1.02	0.53	0.0	5	22	7	2	E	
Clover Valley	Elko	6,000	9	64.4		93	1	32	31	47	0.88		0.26	0.0	6	15	11	5		
Elko	Elko	5,342	38								0.03	-0.28	0.01	0.0	3					
Golconda	Humboldt	4,697	30	72.1	-0.5	101	3	41	15	46	0.00	-0.12	0.00	0.0	0	17	7	7	W	Agent So. Pacific Co. Agent So. Pacific Co. Agent So. Pacific Co. G. S. Webb Agent So. Pacific Co.
Hallock	Elko	5,631	16	61.0	-2.7	97	1	23	31	57	1.15	+0.95	0.60	0.0	7	17	14	0	W	
Humboldt	Humboldt	4,236	37	72.8	+0.8	97	7	40	30	40	0.00	-0.09	0.00	0.0	0	15	12	4	SW	
Lovelock	Humboldt	3,977	16																	
Mill City 3	Humboldt	4,391	20	71.0	-1.9	101	7	42	30	28	0.00	-0.14	0.00	0.0	0	3	9	19	W	
Quinn River Ranch	Humboldt	4,850	7	67.4		105	7	22	31	64	0.41		0.20	0.0	3	21	4	6	N	F. M. Payne Moses Jones H. D. Glover Agent So. Pacific Co. Agent So. Pacific Co.
San Jacinto	Elko		4	60.0		100	8	24	31	58	0.67		0.60	0.0	2	18	7	6	W	
Squaw Valley 2	Elko	5,100	2																	
Tecoma	Elko	4,812	31	63.5	-9.3	96	1	26	31	53	T	-0.25	T	0.0	0	10	2	19	N	
Wells	Elko	5,631	37	63.4	-5.2	98	1	28	31	56	0.84	-0.69	0.34	0.0	6	21	4	6	SW	
Winnemucca	Humboldt	4,432	30	68.1	-2.4	100	8	36	30	48	0.01	-0.13	0.04	0.0	1	20	7	4	NE	U. S. Weather Bureau
Eastern Section.		Means		67.7							0.46			0.0	2	17	7	7	W	
Cherry Creek	White Pine	6,450	0	59.8		97	5	19	31	58	1.29		0.70	0.0	7	13	18	0	W	J. H. Leishman G. C. Hunting Geo. Allen
Ely	White Pine	6,000	18	68.4	+3.8	91	3	38	31	38	0.99	-0.08	0.50	0.0	6	17	10	4	NE	
Hamilton	White Pine	7,977	2	53.7		70	2	25	30	28	0.01		0.01	T	1	15	15	1		
Central Section.		Means		60.6							0.76			0.0	5	15	14	2	W	
Austin	Lander	6,594	20																	F. H. Triplett Clay Simms Fred J. Jones Miss Mamie Potts
Eureka	Eureka	6,500	6	67.2		94	8	31	30	44	0.57		0.15	0.0	7	14	10	7	S	
Millett	Nye		1	66.1		94	7	28	31	53	0.60		0.40	0.0	2	19	6	6	W	
Potts	Nye	6,990	16	62.6	-5.2	94	8	24	31	51	0.15	-0.51	0.10	0.0	2	11	0	20	S	
Western Section.		Means		65.3							0.44			0.0	4	15	5	11	S	
Carson Dam	Churchill	4,032	2	73.0		100	1	38	31	46	T		T	0.0	0	20	8	3	W	
Fallon	Churchill	3,965	4	72.2		103	8	36	31	47	0.02		0.02	0.0	1	25	1	5	SW	
Fernley	Lyon	4,200	1	75.0	-2.8	102	8	43	30	37	0.11	+0.01	0.07	0.0	2	25	3	3	W	
Gardnerville	Douglas	4,830	9	67.2		98	1	32	30	55	T		T	0.0	0	18	11	2	SE	
Leetville	Churchill	4,020	2	72.7		102	9	36	31	48	0.00		0.00	0.0	0	27	4	0	W	
Lewers' Ranch	Washoe	5,500	21	68.6	+0.5	102	1	33	30	50	0.00	-0.43	0.00	0.0	0	21	10	0		Ross Lewers Section Center U. S. Reclamation Serv. J. G. Young
Reno	Washoe	4,532	38	68.9	-1.9	100	7	37	30	46	0.20	-0.05	0.12	0.0	3	25	5	1	W	
Soda Lake K	Churchill	4,005	2	76.8		102	1	49	19	46				0.0					W	
Wabuska	Lyon	4,347	6	67.0		100	8	31	31	52	T		T	0.0	0	19	12	0	NW	
Southern Section.		Means		71.3							0.04			0.0	1	22	7	2	W	
Columbia	Esmeralda	5,750	2	71.0		97	2	43	28	42	0.75		0.45	0.0	3	21	2	8	N	Will W. Thompson Mrs. J. F. Wambolt Agent Salt Lake Route Agent Salt Lake Route Chas. Arney
Geyser	Lincoln		4	67.4		105	5	18	17	61	0.45		0.45	0.0	1	20	10	1	S	
Jean	Lincoln	2,074	1	89.4		102	7	70	9	24	0.06		0.06	0.0	1	7	0	24		
Las Vegas	Lincoln	2,033	1	81.9		107	7	50	27	53	1.35		1.35	0.0	1	13	13	5		
Logan	Lincoln	1,700	2	83.8		108	7	56	28	46	0.90		0.53	0.0	3	12	17	2	S	
McAfee's Ranch	Esmeralda	4,835	5	61.2		92	2	19	30	63	0.20		0.20	0.0	1	19	0	12	N	W. T. Carter Agent So. Pacific Co. Wm. Oothout, Jr. F. E. Edwards U. S. Weather Bureau
Mina	Esmeralda	4,600	2	74.9		104	3	52	24	45	0.00		0.00	0.0	0	7	19	5	W	
Palmetto	Esmeralda	6,780	19																	
Panaca	Lincoln	4,750	0	72.1		86	6	59	14	20	0.32		0.32	0.0	1				S	
Tonopah	Nye	6,090	2	70.9	+5.2	94	2	39	30	32	0.30	-0.09	0.19	0.0	3	18	11	2	SE	
		Means		74.7							0.48			0.0	2	15	9	7	S	
State Means and Extremes				69.7	-0.3	108	7	18	17	64	0.36	-0.22	1.35	0.0	2	17	8	6	W	
</																				

REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station indicates the number of days missing from the record; for instance, "N" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means.

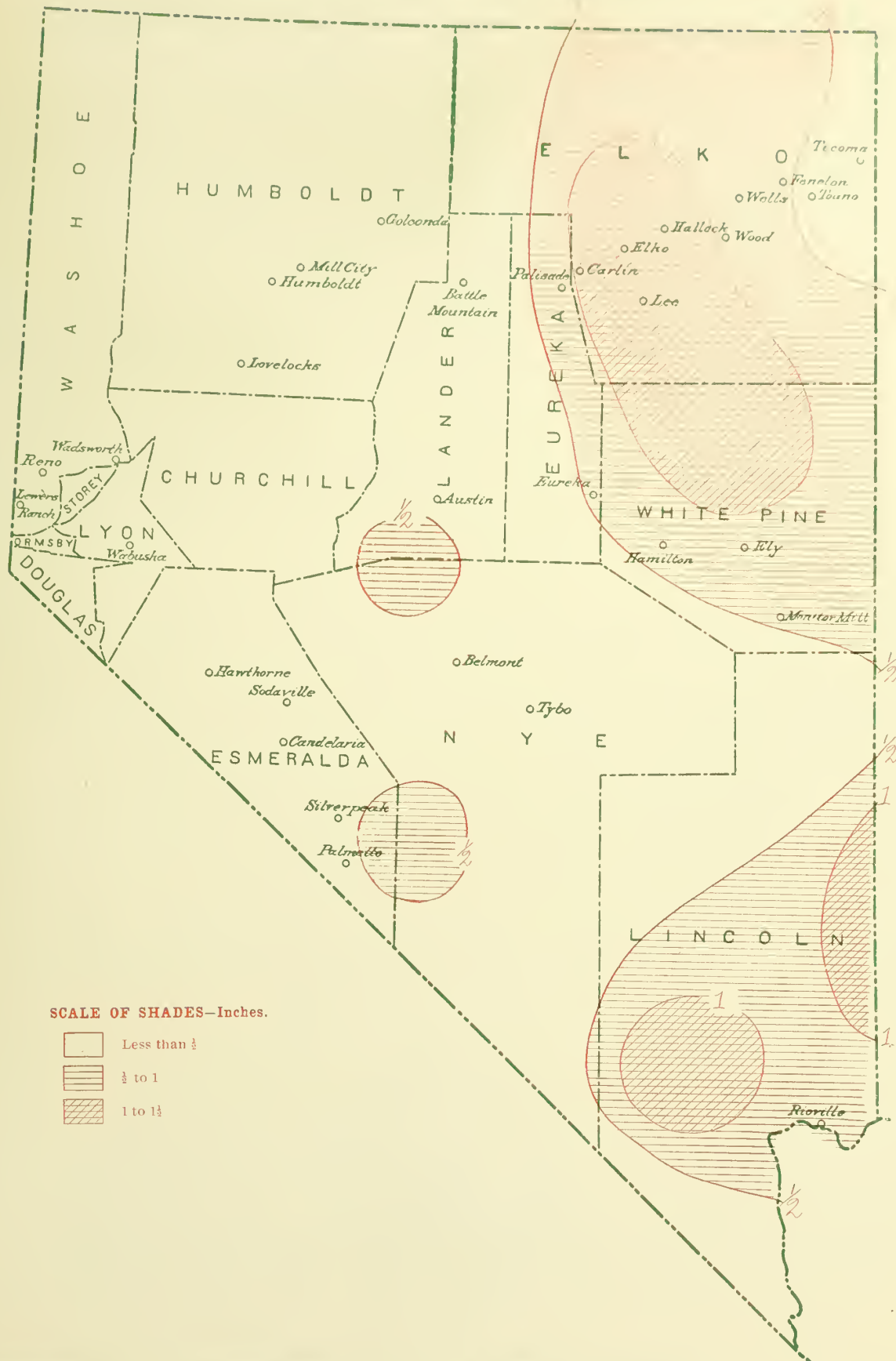


DAILY MAXIMUM AND MINIMUM TEMPERATURES FOR AUGUST, 1908.

Stations.	Day of Month.												Monthly Means.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Battle Mountain.....	Max. 74	95	96	91	93	94	90	89	88	88	88	86	89	89	89	88	86	86	86	86	88	88	84	82	80	78	76	76	72	70	68	70	84.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Beowawe.....	Min. 37	56	51	56	56	55	55	54	54	55	54	52	51	50	50	50	50	50	50	52	52	52	54	54	55	52	52	52	51	50	44	50	82.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Carlin.....	Max. 100	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	87.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Carson Dam.....	Min. 103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	91.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Cherry Creek.....	Min. 52	60	59	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	89.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Clover Valley.....	Max. 100	98	96	97	95	97	99	100	96	92	86	83	78	68	53	53	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	86.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Cobre.....	Min. 73	93	92	88	97	82	92	91	92	91	92	91	92	91	92	91	92	91	92	91	92	91	92	91	90	88	86	84	86	81	77	68	82.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Columbia.....	Min. 48	93	92	91	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Ely.....	Min. 55	58	56	55	56	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	54.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Eureka.....	Min. 94	91	89	89	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	89.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Fallon.....	Min. 54	94	96	94	96	90	92	94	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	89.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Fernley.....	Min. 52	65	61	60	62	60	59	63	60	59	61	60	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	55.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Gardnerville.....	Min. 64	63	63	60	62	58	60	61	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	81.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Geyser.....	Min. 93	93	91	87	88	87	92	94	90	87	87	86	81	79	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	84.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Golconda.....	Min. 56	99	61	60	57	50	56	54	56	57	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	49.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Halleck.....	Min. 101	98	100	105	99	100	100	102	96	94	92	93	84	71	60	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	89.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Hamilton.....	Min. 58	58	54	55	53	45	58	50	57	51	51	36	46	40	30	49	59	49	51	56	47	51	49	45	48	42	42	47	32	45	25	30	47.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Jean.....	Min. 52	58	54	55	53	45	58	50	57	51	51	36	46	40	30	49	59	49	51	56	47	51	49	45	48	42	42	47	32	45	25	30	47.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Las Vegas.....	Min. 84	80	79	83	80	82	86	72	70	80	76	78	82	80	82	80	82	80	82	81	84	85	81	90	80	85	86	88	84	82	103	102	97	81.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Leeville.....	Min. 104	103	104	97	97	101	97	67	66	65	66	68	66	70	53	55	55	54	56	54	56	54	56	57	56	52	51	50	52	52	51	53	53	62.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Lewers' Ranch.....	Min. 68	65	73	75	70	71	77	72	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	85.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Logan.....	Min. 70	74	68	68	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	87.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
McAfee's Ranch.....	Min. 102	96	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	85.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Millet.....	Min. 63	60	54	55	55	53	57	56	53	53	53	44	42	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	36.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Mina.....	Min. 57	57	54	51	54	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	81.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Potts.....	Min. 103	101	103	101	103	101	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99



# TOTAL PRECIPITATION FOR AUGUST, 1908.





Day of Month.

[illegible]

\* Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, - J. G. MCCARTHY, SUPT.



Geographical Union Label

1908



stack  
551.95  
WINE  
U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR OCTOBER, 1908.

NEVADA SECTION  
OF THE  
CLIMATOLOGICAL SERVICE  
OF THE  
WEATHER BUREAU

IN COOPERATION WITH THE  
NEVADA STATE WEATHER SERVICE

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF  
WILLIS L. MOORE  
CHIEF U. S. WEATHER BUREAU

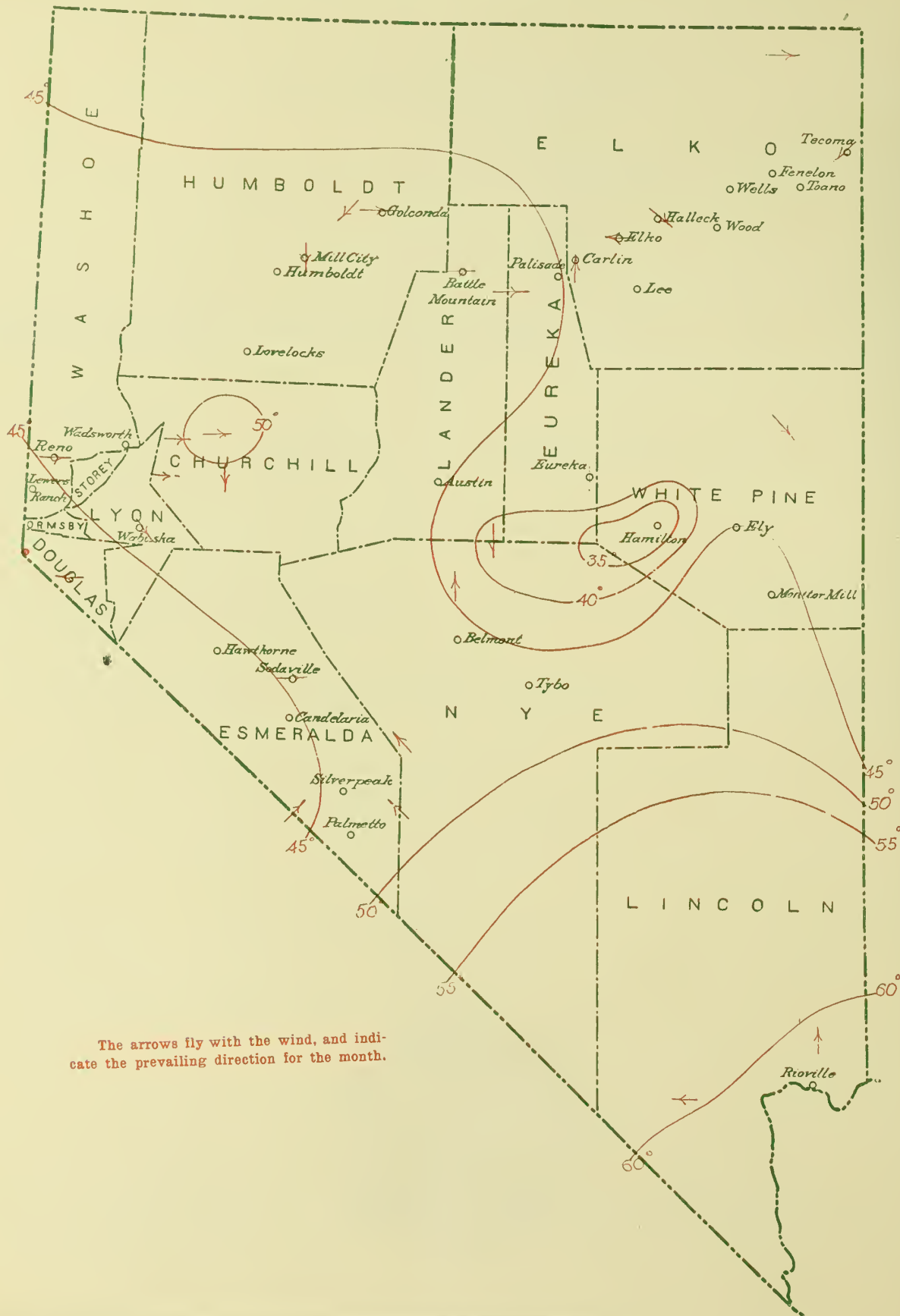
BY  
HARRY O. GEREN  
SECTION DIRECTOR



CARSON CITY, NEVADA:  
November 30, 1908.



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTION FOR OCTOBER, 1908.





# U. S. DEPARTMENT OF AGRICULTURE, CLIMATOLOGICAL SERVICE

OF THE  
**WEATHER BUREAU.**  
CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,  
HARRY O. GEREN, Section Director.

VOL. XXII. RENO, NEVADA, OCTOBER, 1908. No. 10.

## GENERAL SUMMARY.

The weather during the month was quite cool, especially over the eastern portion of the State. The precipitation, however, was nearly normal. Cool weather prevailed at the beginning of the month, particularly on the 2d and 3d. From the 6th to the 14th the temperature was above normal over the western portion and nearly normal over the eastern districts. Beginning with the 15th a cold spell set in, lasting until the 25th over the western half, and to the end of the month over the eastern portion. The lowest temperatures for the month were recorded during this period, mostly on the 21st and 22d. Killing frosts were reported from Las Vegas and Logan, in the extreme southern portion of the State, on the 19th and 20th. This is unseasonably early for that section.

The precipitation was confined to the first two decades, occurring mostly from the 1st to the 3d and from the 14th to the 20th over the northern half, while over the remainder it was limited to the period extending from the 15th to the 18th, inclusive. Snow was quite general at the stations of higher altitudes.

### Temperature.

The mean temperature for the State was 46.6°, which is 2.6° lower than the normal for the month, and 7.6° lower than the mean for the corresponding month of 1907. The highest monthly mean temperature was 60.6°, at Logan, Lincoln County; the lowest was 33.2°, at Hamilton, White Pine County. The highest temperature reported was 95°, at Elko, Elko County, on the 11th, and the lowest was 1°, at Hamilton, White Pine County, on the 22d. The greatest daily range was 70°, at Carlin, Elko County, on the 7th.

### Precipitation.

The average amount for the State was 0.49 inch, which is 0.06 inch less than the normal for the month, and 0.49 inch less than the average for the corresponding month of 1907. The greatest monthly amount was 2.78 inches, at Aura, Elko County, while at Leetville, Churchill County, and at Mina and Fletcher, in Esmeralda County, there was none at all. The greatest amount recorded in twenty-four hours was 1.40 inches, at Lewers' Ranch, Washoe County, on the 15th.

The average number of days with 0.01 inch or more of precipitation was 2.

### Wind.

The prevailing direction was west. The average hourly velocity at Reno was 5.3 miles; at Tonopah it was 10.1 miles, and at Winnemucca it was 6.2 miles. The maximum velocity for a period of five minutes at Reno was at the rate of 40 miles per hour, west, on the 14th; at Tonopah it was 46 miles per hour, northwest, on the 2d, and at Winnemucca it was 42 miles per hour, southwest, on the 14th.

### Sunshine and Cloudiness.

The average number of clear days was 18, partly cloudy days 6, and cloudy days 7.

## COMPARATIVE STATE DATA FOR OCTOBER.

Year.	Temperature.				Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.	Average precipitation.	With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1889 .....	52.2	103	-14	1.48	8	8	13	10	s
1890 .....	50.5	92	8	0.26	3	17	11	3	NW
1891 .....	51.2	88	0	0.04	0	20	8	3	s
1892 .....	47.5	91	2	0.32	3	15	12	4	SW
1893 .....	48.7	94	8	0.12	1	18	10	3	SW
1894 .....	51.7	94	5	0.33	2	22	4	5	SW
1895 .....	49.9	100	-5	0.26	2	21	6	4	w
1896 .....	50.3	94	11	0.24	1	19	7	5	w
1897 .....	47.1	95	9	1.71	6	15	7	9	w
1898 .....	45.9	86	7	0.23	2	19	5	7	w
1899 .....	45.5	89	4	0.74	3	15	6	10	w
1900 .....	47.7	82	4	0.80	3	15	7	9	SW
1901 .....	50.7	90	17	1.11	5	16	6	9	SW
1902 .....	50.0	97	.....	0.27	1	20	5	6	s
1903 .....	51.0	90	11	0.29	1	23	4	4	SW
1904 .....	47.8	91	6	1.20	4	17	6	8	N
1905 .....	45.8	96	0	0.05	0	24	4	3	N
1906 .....	49.9	100	1	0.10	0	21	6	4	w
1907 .....	54.2	96	13	0.98	4	16	8	7	s
1908 .....	46.6	95	1	0.49	2	18	6	7	w
Entire period .....	49.2	103	-14	0.55	3	18	7	6	SW

## MISCELLANEOUS PHENOMENA.

*Hail*—Carson Dam and Soda Lake on the 2d, and Fernley on the 16th.

*Halos, Lunar*—Winnemucca, 31st.

*Halos, Solar*—Reno, 31st.

*High Winds*—Aura, 14th, 19th; Beowawe, 17th; Carson Dam, 1st, 15th, 16th; Cherry Creek, 6th, 11th, 12th, 13th, 14th, 15th, 16th, 17th; Columbia, 1st, 2d, 10th, 11th, 14th, 20th, 29th; Fallon, 1st, 14th, 15th, 17th, 19th; Gardnerville, 1st, 14th, 15th, 29th; Halleck, 14th; Leetville, 1st, 15th, 19th; Mill City, 11th, 13th; Millett, 1st, 14th; Potts, 1st, 11th, 14th, 28th; Reno, 14th; Smith, 14th; Soda Lake, 1st, 14th, 15th; Wabuska, 1st, 14th; Winnemucca, 14th.

*Killing Frost*—The first killing frost of the season was reported from Las Vegas on the 19th, Logan on the 20th, and Tonopah on the 2d.



## CORRECTION.

July, 1908, page 52: In the second paragraph, fourth line, of the article on the climatology of Tecoma, the coldest month on record should have been February, 1903, with an average temperature of 11.8°. This changes the difference between the means of the warmest and coldest months from 69.3° to 70.9°.

August, 1908, page 61: The greatest amount of precipitation in twenty-four hours at Millett was published 0.40, and should be 0.60.

## LATE REPORT.

September, 1908, Clover Valley: Mean temperature, 56.4°; highest, 87°, on the 4th; lowest, 19°, on the 25th and 26th; total precipitation, 0.32 inch; greatest amount in twenty-four hours, 0.30 inch; snowfall 0.0; rainy days 2, clear days 14, partly cloudy days 12, and cloudy days 4.

## CLIMATOLOGY OF WADSWORTH, NEVADA.

Wadsworth is situated in the southeastern corner of Washoe County, in latitude 39° 35' and longitude 119° 13'. Its elevation is 4,150 feet, and the surrounding country is generally level. The record is available back to 1888, and is fairly complete during that period. The station is now known as Fernley, the change being made late in 1906. Up to, and including, that year the observations were taken by the agent of the Southern Pacific Company at Wadsworth, after which Fernley was established and Wadsworth discontinued, the change in the location of the instruments amounting to but a mile and a half. Mrs. A. J. Rankin has kept a continuous and excellent record at Fernley during 1907 and 1908. The station is equipped with the standard outfit of instruments. Missing temperature data were supplied by interpolation.

The normal temperature for January, the coldest month, is 31.2°, and that for July, the warmest month, 77.9°. The warmest month on record was July, 1901, the mean temperature for which was 85.5°; the coldest was January, 1898, the mean for which was 19.3°. These records give a difference of 66.2° between the means of the warmest and coldest months on record. The highest temperature ever observed was 106°, on July 21, 1901, and the lowest was 12° below zero, on February 6, 1899, giving a range of 118° at the station during the length of the record. The coldest year was 1895, with a mean of 48.2°, and the warmest year was 1889, with a mean of 56.5°. Freezing temperatures have been recorded in every calendar month, except July and August.

The average annual amount of precipitation is 5.42 inches, the greatest monthly normal being 0.84 inch, in January, and the least, 0.15 inch, in June. The wettest months are January, February, and May, and the driest are from June to October, inclusive. On account of the small number of years for which the total annual amount of precipitation can be figured, no significant statement can be made regarding the wettest and driest years. The greatest amount of precipitation in one month was 3.22 inches, in January, 1896. There has been at least one month in practically every year when there was no precipitation, while usually there are from two to six such months in the course of the year. The longest dry period was from April to December, inclusive, 1903, the total amount of precipitation during those nine months amounting to only 0.17 inch.

The following tables give all available data:

## Monthly and Annual Precipitation.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1888	.....	.....	.....	0.10	0.52	0.00	.....	.....	.....	.....	.....	.....	.....
1889	.....	.....	.....	0.00	0.29	0.24	0.00	0.00	0.00	0.29	0.55	1.16	.....
1890	.....	0.70	.....	0.04	1.10	0.00	0.00	0.00	1.55	0.50	0.05	0.61	.....
1891	0.00	1.32	1.37	0.00	2.21	0.00	0.00	0.00	.....	.....	.....	0.52	.....
1892	0.00	0.60	T	.....	0.00	0.30	T	0.00	0.00	0.00	2.18	0.67	.....
1893	0.88	0.00	0.00	0.20	T	0.00	T	0.00	1.00	0.00	0.00	0.30	2.38
1894	0.40	0.60	0.00	0.20	0.52	1.04	1.19	.....	0.25	T	.....	.....	.....
1895	0.75	2.74	.....	0.20	1.06	T	0.05	0.05	0.05	0.05	0.45	1.10	.....
1896	3.22	0.00	0.22	0.35	1.04	0.00	2.04	1.20	0.41	0.10	0.44	0.05	9.07
1897	0.89	2.33	0.23	0.00	0.30	0.20	0.00	T	0.25	1.78	0.29	0.98	7.25
1898	0.83	0.05	0.60	0.30	1.37	0.00	0.00	0.07	0.18	0.22	0.58	0.09	4.29
1899	0.30	0.30	0.70	0.10	0.42	0.00	0.17	0.05	0.00	0.20	0.10	1.95	4.29
1900	0.35	0.25	0.64	1.92	1.12	0.05	0.08	0.00	0.34	T	0.50	0.05	5.30
1901	0.51	1.18	0.00	0.30	0.76	0.10	0.00	1.92	0.00	0.40	0.33	0.30	5.80
1902	0.55	0.97	0.70	0.67	1.33	0.00	0.30	0.15	0.00	0.00	0.40	0.15	5.22
1903	1.43	0.22	1.22	0.00	0.07	0.00	0.00	0.10	0.00	.....	T	3.04	.....
1904	0.05	2.36	1.50	0.00	0.01	0.00	0.00	0.28	.....	.....	.....	.....	.....
1905	.....	0.80	.....	.....	.....	0.00	.....	0.00	0.00	0.00	0.67	0.50	.....
1906	2.28	0.00	0.17	.....	.....	0.00	1.67	0.00	0.02	0.00	0.45	0.80	.....
1907	0.95	0.05	1.37	1.00	0.44	1.03	0.05	1.14	0.27	0.83	T	0.67	7.80
Means	0.84	0.80	0.58	0.32	0.70	0.15	0.31	0.27	0.26	0.24	0.37	0.58	5.42

## Monthly and Annual Mean Temperatures.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1888	27 <sup>1</sup>	44	40	56	61	67	79	80 <sup>1</sup>	70 <sup>1</sup>	54 <sup>1</sup>	38	35 <sup>1</sup>	54
1889	28 <sup>1</sup>	37 <sup>1</sup>	46 <sup>1</sup>	59	64	78	84	81	66	54	43	38	56
1890	19 <sup>1</sup>	33	40 <sup>1</sup>	56	68	68	81	77	67	50	39	35	53
1891	32	36	42	53	59	66	79	80	62 <sup>1</sup>	54	42	25	52
1892	23	30	42	43	52	64	76	75	66	45	34	32	48
1893	31	33	43	42	54	64	78	72	56	45	38	35	49
1894	32	48	40	52	54	58	83	77	59	52	40	30	52
1895	29	34	40	47	60	62	76	72	58	42	32	26	48
1896	34	37	39	39	55	70	76	71	55	47	37	34	50
1897	28	30	36	47	65	69	76	84	62	48	40	26	51
1898	19	36	37 <sup>1</sup>	54 <sup>1</sup>	58	69	78	80	64	44	34	24	50
1899	35	37	39	47	50	63	72	61	64	45	41	31	49
1900	38	38	45	49	60	71 <sup>1</sup>	80 <sup>1</sup>	71	54	49	42 <sup>1</sup>	33	52
1901	35	32	48	51	60	72	86	81	70	61	43	31	56
1902	30	42	39	52	58	68	70	74	64	51	41	35	52
1903	32	26	43	48	58	68	69	64	62	46	37	30	49
1904	32	45	43	55	67	69 <sup>1</sup>	78 <sup>1</sup>	77	68	52	42	37	55
1905	45	37	46	54	56	63	82 <sup>1</sup>	80	68	54	42	28	55
1906	34	39	42	50	56	64	81	75	61	53	43	40	53
1907	40	46	41	54	58	62	74	71	63	57	42	38	54
Means	31.2	37.0	41.6	50.4	58.6	66.8	77.9	75.2	63.0	50.2	39.5	32.2	52.0

Extreme values in *italic type*.

<sup>1</sup>No record; mean obtained by applying the departure from the normal at Reno to the normal for the month at Wadsworth.

## Temperature Extremes, 1888 to 1907, Inclusive.

Month.	Maximum.	Year.	Day.	Minimum.	Year.	Day.
January	73	1907	31	-11	1902	26
February	72	1901	28	-12	1899	6
March	84	1894	.....	10	1904	21
April	86	1890	.....	10	1896	.....
May	96	1897	19	23	1902	3
June	102	1901	28	30	1907	14
July	106	1901	21	34	1902	2
August	104	1898	4	38	1899	22
September	100	1905	2	27	1902	26
October	91	1905	3	12	1900	30
November	90	1891	.....	-2	1896	29
December	80	1893	.....	-4	1898	13



## CLIMATOLOGICAL REPORT FOR OCTOBER, 1908.

Stations.	Counties.	Elevation (feet).	Length of record (years).	Temperature (degrees Fahrenheit).							Precipitation (inches).					Sky				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.			
Northern Section.																					
Battle Mountain .....	Lander .....	4,843	38	46.6	—3.0	76	6	28	19	40						16	6	9	W	Agent So. Pacific Co.	
Beowawe .....	Eureka .....	4,905	38	47.0	—1.9	67	5	28	20	33	0.11	—0.29	0.12	1.5	2	15	0	16	W	Agent So. Pacific Co.	
Carlin .....	Elko .....	5,232	38	44.0	—0.8	88	7	11	21	70	0.60	+0.35	0.30	0.0	4	21	3	7	S	Agent So. Pacific Co.	
Clover Valley .....	Elko .....	4,236	9	44.6		83	9	12	21	49	1.49		1.26	1.0	4	18	5	8		I. F. Wiseman	
Elko .....	Elko .....	5,342	38	47.9	+4.3	95	11	16	23	60	0.33	—0.14	0.20	3.0	4	13	10	8	E	Agent So. Pacific Co.	
Golconda .....	Humboldt .....	4,697	30	45.2	—5.4	75	9	17	22	41	1.15	+0.79	0.35	0.0	5	22	3	6	W	Agent So. Pacific Co.	
Halleck .....	Elko .....	5,631	16	41.2	—2.0	79	1	9	21	57	0.82	+0.35	0.40	1.0	3	14	11	6	NW	Agent So. Pacific Co.	
Humboldt .....	Humboldt .....	4,236	37	46.2	—3.1	76	9	19	23	36	0.01	—0.46	0.01	0.0	1	12	15	4		Agent So. Pacific Co.	
Lovelock .....	Humboldt .....	3,977	16																	G. S. Webb	
Mill City 3 .....	Humboldt .....	4,391	20	41.8	—0.2	67	23	18	18	44						21	0	10	N	Agent So. Pacific Co.	
Quinn River Ranch q .....	Humboldt .....	4,850	7	44.9																F. M. Payne	
San Jacinto .....	Elko .....		4	41.5		78	8	10	21	53	1.45		1.00	1.0	3	15	11	5	W	Moses Jones	
Squaw Valley 2 .....	Elko .....	5,100	2																	H. D. Glover	
Tecoma .....	Elko .....	4,812	31	43.6	—2.2	80	1	6	22	54	T	—0.41	T	T	0	20	3	8	NE	Agent So. Pacific Co.	
Wells .....	Elko .....	5,631	37	43.2	—2.6	79	10	12	16	59	0.17	—0.46	0.06	0.0	5	14	0	17	S	Agent So. Pacific Co.	
Winnemucca .....	Humboldt .....	4,432	30	45.7	—2.9	81	8	16	21	48	0.90	+0.38	0.25	0.8	6	18	6	7	NE	U. S. Weather Bureau	
Means .....				44.6							0.60			0.8	3	17	6	8	W		
Eastern Section.																					
Cherry Creek c .....	White Pine .....	6,450	0	43.3		78	9	6	21	41	0.77		0.30	2.9	4	15	12	4	NW	J. H. Leishman	
Ely .....	White Pine .....	6,000	18	46.0	+2.6	79	1	20	3	44	0.16	—0.62	0.10	0.0	2	20	7	4	NE	G. C. Hunting	
Hamilton .....	White Pine .....	7,977	2	33.2		54	2	1	22	30	0.60		0.60	6.0	1	19	5	7		Geo. Allen	
Means .....				40.8							0.51			3.0	2	18	8	5	NW		
Central Section.																					
Austin .....	Lander .....	6,594	20																	F. H. Triplett	
Eureka .....	Eureka .....	6,500	6	44.4		78	9	11	22	41	0.53		0.42	3.0	5	15	6	10	N	Clay Simms	
Millett .....	Nye .....	1	1	43.6		79	10	9	22	56	0.07		0.07	0.0	1	18	11	2	S	Fred J. Jones	
Potts .....	Nye .....	6,990	16	39.8	—4.8	76	6	6	22	52	0.22	—0.08	0.10	2.0	3	12	6	13	N	Miss Mamie Potts	
Means .....				42.6							0.27			1.7	3	15	8	8	N		
Western Section.																					
Carson Dam .....	Churchill .....	4,032	2	49.4		80	8	24	23	41	T		T	T	0	16	11	4	W	J. M. Heizer	
Fallon .....	Churchill .....	3,965	4	48.3		82	1	15	22	44	0.17		0.11	T	2	21	3	7	N	U. S. Reclamation Serv.	
Fernley .....	Lyon .....	4,200	1	49.2	—1.0	82	10	15	22	43	0.26	+0.02	0.20	0.0	2	17	6	8		U. S. Reclamation Serv.	
Gardnerville .....	Douglas .....	4,830	9	42.0		84	1	15	22	54	1.11		0.70	11.0	2	15	6	10	E	William Dangberg	
Leetville .....	Churchill .....	4,020	2	49.0		82	1	15	22	45	0.00		0.00	0.0	0	24	7	0	W	U. S. Reclamation Serv.	
Lewers' Ranch M .....	Washoe .....	5,500	21	44.6	—6.6	71	27	21	21	42	1.40	—0.17	1.40	T	1					Ross Lewers	
Reno .....	Washoe .....	4,532	38	47.8	—1.9	79	9	20	22	40	0.28	—0.13	0.20	T	3	19	5	7	W	Section Center	
Soda Lake .....	Churchill .....	4,005	2	50.1		80	8	19	21	44	T		T	T	0	16	9	6	W	U. S. Reclamation Serv.	
Wabuska .....	Lyon .....	4,347	6	45.2		78	1	10	22	51	0.12		0.12	T	1	22	7	2	NW	J. G. Young	
Means .....				47.3							0.37			1.2	1	19	7	5	W		
Southern Section.																					
Columbia .....	Esmeralda .....	5,750	2	48.0		78	9	19	21	46	1.00		1.00	10.0	1	26	1	4	SE	D. E. Hoffman	
Geyser .....	Lincoln .....		4																	Mrs. J. F. Wambolt	
Jean .....	Lincoln .....	2,074	1	60.3		90	10	40	17	20	1.00		1.00	0.0	1	24	0	7		Agent Salt Lake Route	
Las Vegas .....	Lincoln .....	2,033	1	58.6		83	2	29	19	43	0.48		0.48	0.0	2	19	8	4	E	Agent Salt Lake Route	
Logan .....	Lincoln .....	1,700	2	60.6		93	8	33	24	45	0.44		0.22	0.0	3	18	9	4	S	Chas. Arney	
McAfee's Ranch .....	Esmeralda .....	4,835	5	44.8		79	9	3	22	63	0.20		0.20	2.0	1	19	2	10	SW	W. T. Carter	
Mina .....	Esmeralda .....	4,600	2	45.5		69	12	16	22	44	0.00		0.00	0.0	0	13	7	11	W	Agent So. Pacific Co.	
Palmetto .....	Esmeralda .....	6,780	19																	Wm. Oothout, Jr.	
Panaca .....	Lincoln .....	4,750	0	54.6		79	9	30	18	31	1.36		1.16	0.0	2	16	10	5		F. E. Edwards	
Tonopah .....	Nye .....	6,090	2	46.9		72	10	21	21	27	0.06		0.06	1.0	1	18	9	4	SE	U. S. Weather Bureau	
Means .....				52.4							0.57			1.6	1	19	6	6	SE		
State Means and Extremes .....				46.6	—2.6	95	11	1	22	70	0.49	—0.06	1.40	1.4	2	18	6	7	W		

REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station indicates the number of days missing from the record; for instance, "N" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means.

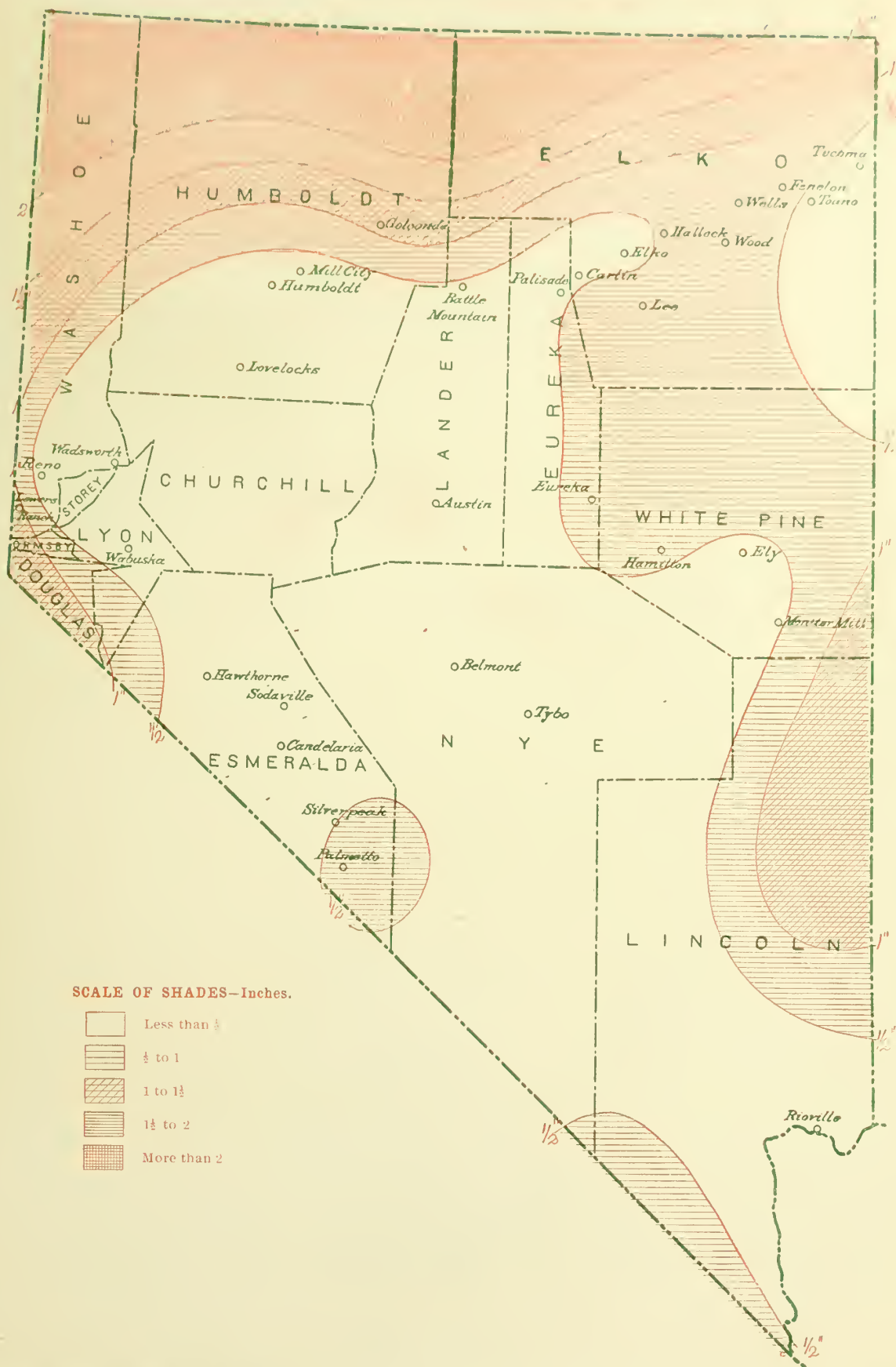


DAILY MAXIMUM AND MINIMUM TEMPERATURES FOR OCTOBER, 1908.

Stations	Day of Month.																	Monthly means															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Battle Mountain.....	Max. 61	68	66	68	70	76	74	74	70	76	76	74	44	40	38	38	42	36	38	36	40	68	66	64	66	64	64	62	64	61	66	59.7	
Beowawe.....	Min. 31	36	34	38	36	36	34	34	36	36	36	36	34	34	38	40	32	32	28	28	32	36	34	34	34	34	32	32	32	34	33.6		
Carlin.....	Max. 58	60	59	62	67	66	66	65	61	58	58	59	60	57	58	60	62	59	56	56	40	50	49	50	48	48	42	42	43	40	35.3		
Carson Dam.....	Min. 35	35	33	36	35	32	32	30	33	30	30	30	32	30	33	31	30	33	30	28	30	58	66	66	66	66	66	79	80	78	69.1		
Cherry Creek.....	Max. 84	85	82	85	82	85	82	86	72	70	68	65	65	60	60	60	56	60	56	60	52	58	54	54	54	54	42	42	43	40	18.1		
Clover Valley.....	Min. 24	30	32	38	38	38	38	22	24	26	20	18	12	12	13	14	14	16	14	12	12	11	16	16	16	14	14	16	18	24	64.5		
Cobre.....	Max. 79	66	50	62	70	73	74	77	79	75	78	36	38	40	46	50	49	48	56	47	28	50	57	26	26	34	34	34	34	31	61	58.5	
Columbia.....	Min. 46	33	38	38	36	36	35	35	40	43	46	35	33	33	39	30	30	30	30	32	37	40	54	58	58	57	57	63	65	60	57	60.8	
Ely.....	Max. 18	31	20	36	28	25	28	30	37	44	46	46	44	44	44	44	44	44	44	44	15	15	15	15	15	15	15	15	15	15	15	28.3	
Eureka.....	Min. 79	62	52	48	67	69	76	79	83	82	75	72	67	67	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69.6	
Fallon.....	Max. 46	27	21	33	26	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	31.6	
Fernley.....	Min. 38	65	52	63	73	72	72	77	81	80	71	36	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35.5	
Gardnerville.....	Max. 80	65	52	63	73	72	72	77	81	80	71	36	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35.5	
Geyser.....	Min. 52	33	36	35	39	32	32	35	39	42	48	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44.0	
Golconda.....	Max. 84	79	58	68	72	80	77	77	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81.0	
Halleck.....	Min. 30	28	32	36	26	25	28	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34.0	
Hamilton.....	Max. 79	66	50	62	70	73	74	77	79	75	78	36	38	40	46	50	49	48	56	47	28	50	57	26	26	34	34	34	34	31	61	58.5	
Jean.....	Min. 44	24	24	32	20	25	35	50	80	85	90	88	27	33	43	21	18	58	58	58	56	55	58	56	58	58	58	58	58	58	58	58	58.5
Las Vegas.....	Max. 68	62	60	62	72	62	62	68	69	70	72	70	64	60	58	60	49	42	40	42	40	42	40	42	40	42	40	42	40	42	40	43.6	
Leeville.....	Min. 51	51	48	54	52	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54.5	
Lewers' Ranch.....	Max. 79	83	81	73	75	78	80	79	76	76	81	80	80	65	68	50	49	52	30	28	20	15	18	23	24	25	25	28	30	31	30	30.5	
Logan.....	Min. 82	75	63	71	78	76	82	80	80	80	70	69	36	36	55	51	44	48	54	54	49	59	63	66	69	69	69	69	69	69	69	69.5	
McAfee's Ranch.....	Max. 37	33	33	33	34	33	35	40	41	40	38	38	36	36	50	36	31	34	24	26	22	21	23	25	28	28	30	31	30	30	30	29.7	
Millet.....	Min. 90	85	84	72	79	86	90	93	92	90	93	87	86	87	76	76	60	51	57	65	63	64	37	33	33	37	40	37	75	73	73	77.2	
Mina.....	Max. 45	56	60	38	40	44	65	56	56	54	57	46	50	60	50	48	45	35	34	30	64	55	56	61	66	68	68	68	68	68	68	69.7	
Potts.....	Min. 34	24	31	25	24	17	19	21	20	32	33	33	34	32	32	30	17	12	20	12	15	3	6	6	6	8	10	8	18	18	15	19.9	
Quinn River Ranch.....	Max. 78	58	53	59	67	62	62	62	62	68	66	64	64	64	59	58	62	50	50	50	49	60	56	66	67	68	68	68	68	68	68	69.7	
Reno.....	Min. 32	32	28	28	25	26	26	32	32	32	34	34	32	30	34	34	22	22	22	22	18	16	24	28	28	28	28	28	28	28	28	29.1	
San Jacinto.....	Max. 54	62	64	67	63	64	67	69	71	70	65	62	64	65	67	69	38	38	37	44	31	37	46	56	56	56	56	56	56	56	56	56.7	
Soda Lake.....	Min. 29	31	26	27	59	76	70	69	71	70	65	62	64	65	67	69	22	16	16	17	14	14	14	15	15	15	15	15	15	15	15	16.2	
Tecoma.....	Max. 70	61	54	53	30	22	24	30	29	26	68	65	70	66	60	47	40	34	29	22	18	13	17	18	18	18	18	18	18	18	18	18.5	
Tonopah.....	Min. 32	25	19	30	22	19	19	30	29	26	68	65	70	66	60	47	40	34	29	22	18	13	17	18	18	18	18	18	18	18	18	18.5	
Wabuska.....	Max. 45	26	27	34	41	64	67	68	71	72	72	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73.5	
Wells.....	Min. 78	73	66	69	66	69	70	72	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73.5	
Winnemucca.....	Max. 28	28	32	33	26	25	27	32	32	34	30	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28.5	
	Min. 23	30	28	26	24	32	30	28	21	20	68	65	70	71	69	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46.8	
	Max. 76	46	44	58	68	72	72	78	81	81	79	68	30	36	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32.7	



# TOTAL PRECIPITATION FOR OCTOBER, 1908.





## DAILY PRECIPITATION FOR OCTOBER, 1908.

Stations	Day of Month.																															Total		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Northern Section.																																		
Aurora	*	0.03	0.34	0.26									T	T	0.94	0.26			0.49	0.46												T	2.78	
Battle Mountain																																	0.14	
Beowawe																																	0.60	
Carlin		0.10	T	0.10								0.30		0.10		1.26	0.04		T	0.14													1.49	
Clover Valley				0.05																													0.33	
Cobre																		0.01	0.20	0.10													1.15	
Elko		0.02													0.35				0.15														0.82	
Golconda	0.35	0.20	0.10												0.32	T		0.10	T														0.01	
Halleck	T	T		0.40															0.10															
Humboldt			0.01																															
Lovelock																																		
Mill City															0.65																			
Paradise Valley			0.10												0.08																			
Quinn River Ranch															1.00			0.10	T														0.10	
San Jacinto			0.35																															
Squaw Valley																																		
Tecona		T												*	0.03		T	*	0.06	0.04	*												T	
Wells		0.01	0.03																															0.17
Willow Point																																		0.90
Winnemucca	0.17	0.06	0.20											T	0.18	0.06	T		0.23	T														
Eastern Section.																																		
Cherry Creek	T	T													T	0.30	0.20	T	T	0.21	0.06												0.77	
Ely																T	T		0.06	0.10													0.16	
Hamilton		T		T											T	T	T		0.60														0.60	
Central Section.																																		
Austin																																	0.53	
Eureka		0.02	T												0.42	T			0.02	0.05	0.02												0.07	
Milllett															0.07																		0.22	
Potts		T	T												0.02	0.10	T	0.10	T															
Western Section.																																		
Buckskin																																	0.12	
Carson Dam																																	T	
Douglas Ranch																																		0.17
Fallon	0.06	0.11																															0.26	
Fernley		0.20	0.06																														1.11	
Garderville														0.41																			0.00	
Glenbrook																																	1.40	
Leetville														*	1.40	T																	0.28	
Lewers' Ranch															0.15	0.05	T	T	T														0.31	
Reno		0.08	T												0.19																		T	
Smith		0.12	T																														T	
Soda Lake		T	T																														0.12	
Wabaska		0.12	T																															
Yerington																																		
Southern Section.																																		
Columbia																																	1.00	
Fletcher																																	0.00	
Geyser																																	1.00	
Jean																																	0.48	
Las Vegas																		*	0.48														0.44	
Logan																																	0.20	
McAfee's Ranch																		0.22	0.10	0.12													0.00	
Mina																																		
Palmetto																																		
Panaca																																		1.36
Tonopah			T															1.16	0.20														0.06	

T indicates trace. \* Amount included in that of the following day.

CARSON CITY, NEVADA:



STATE PRINTING OFFICE,

J. G. MCCARTHY, SUPT.

1908



U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR NOVEMBER, 1908.

NEVADA SECTION.

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

IN COOPERATION WITH THE

NEVADA STATE WEATHER SERVICE

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

H. F. ALPS

ACTING SECTION DIRECTOR

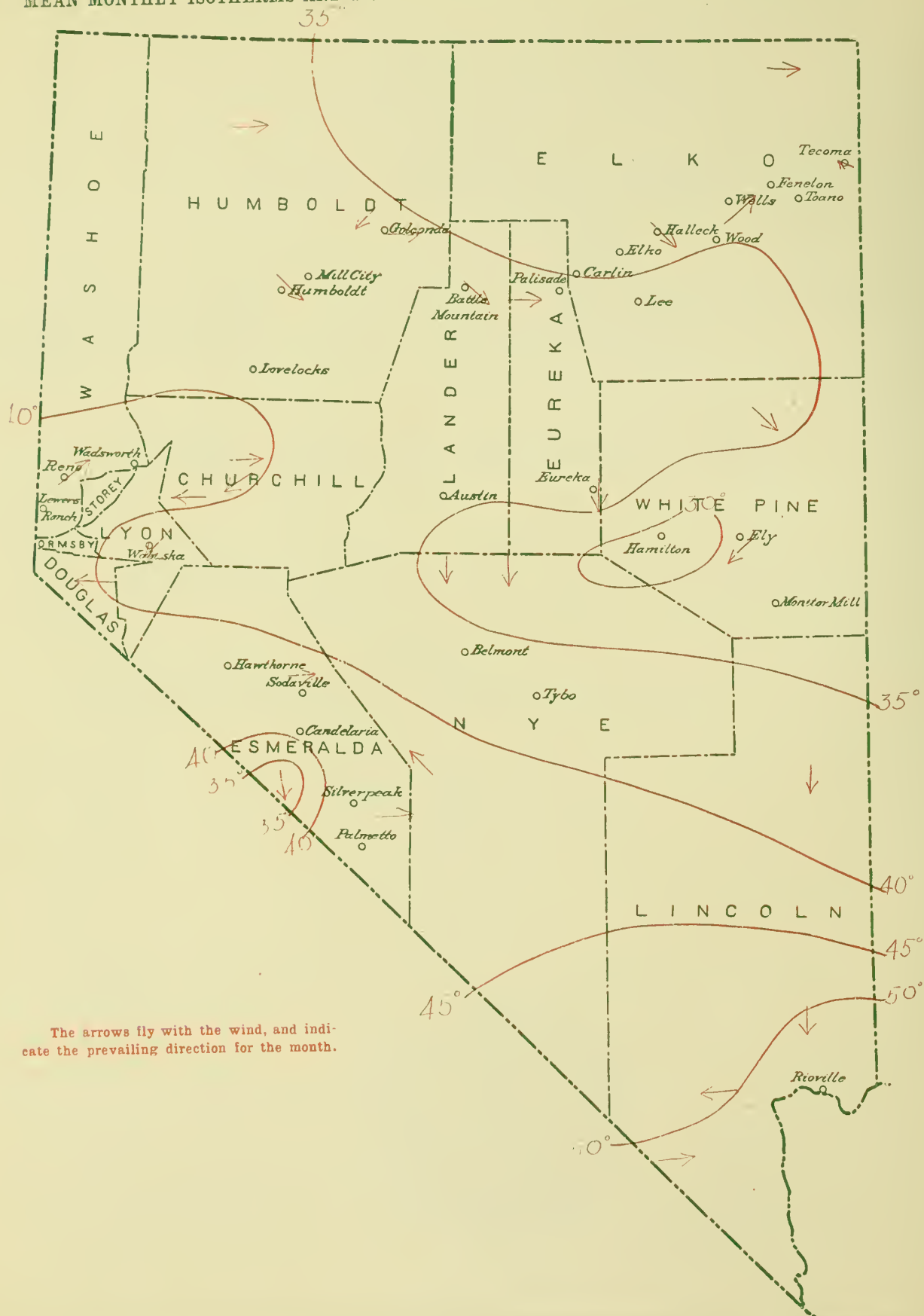


CARSON CITY, NEVADA:

January 8, 1909



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTION FOR NOVEMBER, 1908.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**  
 OF THE  
**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,  
 HENRY F. ALPS, Acting Section Director.

VOL. XXII. RENO, NEVADA, NOVEMBER, 1908. No. 11.

**GENERAL SUMMARY.**

Moderately high temperatures prevailed thruout the State during the first two decades of the month, the mean temperature being above the normal until the 22d, except in the northern, eastern and southeastern portions, where it was about normal from the 9th to the 15th. On the 20th a rapid fall in temperature began and the cold spell continued during the remainder of the month. The coldest period was from the 25th to the 29th, with rising temperatures on the last day of the month. The highest average temperature was recorded at Jean, Lincoln County, and the lowest was at Hamilton, White Pine County, the latter station recording an average temperature which was 28° lower than that of the former. There were six stations at which the monthly mean temperature fell to freezing or below. Minimum temperatures below freezing were recorded at all stations, while maximum temperatures of 70° or above were reached at twelve stations. The maximum temperatures occurred at most stations on the 4th, 5th or 6th, and the minimum temperatures were recorded at the larger number of stations on the 27th, 28th or 29th.

The precipitation for the month was very light, there being but three drier Novembers in the twenty years over which period the record extends. All of the precipitation occurred from the 20th to the 25th, inclusive, the 23d being the date when it was recorded at the greater number of stations. At eight stations there was only a trace of rain or snow, and at nine stations there was no precipitation. It was heaviest in the extreme southwest portion of Washoe County and the north portion of Humboldt County, and least in the south portion of the State. Snow fell at all stations reporting precipitation with the exception of Logan in the south portion of Lincoln County, and three stations in Churchill County.

**Temperature.**

The mean temperature for the State was 38.3°, which is 1.0° lower than the normal for the month, and 1.9° lower

than the mean for the corresponding month of 1907. The highest monthly mean temperature was 53.6°, at Jean, Lincoln County. The lowest monthly mean temperature was 25.8°, at Hamilton, White Pine County. The highest temperature was 83°, at Logan, on the 6th. The lowest was 13° below zero at Halleck, Elko County, on the 28th, and at Potts, Nye County, on the 27th and 28th. The greatest daily range was 63°, at McAfee's Ranch, Esmeralda County, on the 17th.

**Precipitation.**

The average amount for the State was 0.15 inch, which is 0.58 inch less than the normal for the month, and 0.06 inch less than the average for the corresponding month of 1907. The greatest monthly amount was 1.10 inches at Lewers' Ranch, Washoe County, and this was also the greatest amount recorded in twenty-four hours. There was no precipitation at nine stations. The average number of days with 0.01 inch or more of precipitation was 1.

**Wind.**

The prevailing direction was west. The average hourly velocity at Reno was 3.5 miles; at Tonopah it was 7.6 miles, and at Winnemucca it was 5.7 miles. The maximum velocity for a period of five minutes at Reno was at the rate of 26 miles per hour, southwest, on the 23d; at Tonopah it was 43 miles per hour, northwest, on the 24th, and at Winnemucca it was 26 miles per hour, northwest, on the 24th.

**Sunshine and Cloudiness.**

The average number of clear days was 18, partly cloudy days 7, and cloudy days 5.

**COMPARATIVE STATE DATA FOR NOVEMBER.**

Year.	Temperature.			Average precipitation.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1889 .....	39.6	81	4	1.08	5	16	5	9	s
1890 .....	40.9	86	5	0.18	0	23	6	1	s
1891 .....	41.3	81	-2	0.09	1	13	9	8	s
1892 .....	38.7	76	-13	2.08	4	8	16	6	s
1893 .....	38.2	74	-8	0.83	4	12	8	10	sw
1894 .....	43.7	83	-12	0.08	0	20	9	1	w
1895 .....	35.9	80	-10	0.67	4	11	8	11	s
1896 .....	35.6	79	-23	1.10	4	10	8	12	sw
1897 .....	40.3	77	-6	0.69	3	12	8	10	w
1898 .....	35.1	77	-10	1.10	4	15	6	9	w
1899 .....	40.8	73	3	0.50	3	11	7	12	w
1900 .....	40.7	78	1	1.34	5	13	6	11	sw
1901 .....	43.1	80	12	0.53	2	14	9	7	sw
1902 .....	37.2	82	-3	1.25	5	12	7	11	sw
1903 .....	41.8	89	4	0.67	2	15	8	7	s
1904 .....	41.8	80	2	0.06	0	16	8	6	w
1905 .....	36.4	88	-10	1.11	4	16	5	9	n
1906 .....	35.5	83	-22	0.93	4	10	8	12	n
1907 .....	40.2	78	-1	0.21	1	20	5	5	w
1908 .....	38.3	83	-13	0.15	1	18	7	5	w
Entire period .....	39.3	89	-23	0.73	3	14	8	8	w



## MISCELLANEOUS PHENOMENA.

*Fog*—Clover Valley, 27th.

*Halo, Lunar*—Millett, 9th; Reno, 15th; Tonopah, 2d.

*Halo, Solar*—Eureka, 2d, 12th, 14th; Millett, 2d, 3d.

*High Winds*—Columbia, 1st, 9th, 23d, 24th; Fallon, 20th, 23d, 24th; Leetville, 23d; Reno, 23d; Tonopah, 24th; Winnemucca, 24th.

*Thunderstorms*—Fly, 23d; Millett, 24th; Winnemucca, 23d.

## CLIMATOLOGY OF FENELON, NEVADA.

Fenelon is situated in the northeastern portion of Elko County, in latitude  $41^{\circ} 12'$  and longitude  $114^{\circ} 38'$ . The surrounding country is rather level in the immediate vicinity, but mountainous in the distance. The record is available beginning with 1889. During the last few years it has been so fragmentary as to be worthless. Interpolated values were obtained for some of the missing data in the temperature record from the record at Wells, about 25 miles distant, and having practically the same elevation. The station has always been located at the depot of the Southern Pacific Company with the station agent acting as the observer. The temperature record was obtained from readings of an ordinary thermometer at 7 a. m., 2 p. m. and 9 p. m.

The normal temperature for January, the coldest month, is  $22.6^{\circ}$ , and that for July, the warmest month, is  $73.5^{\circ}$ . The warmest month ever recorded was July, 1891, when the mean temperature was  $89.5^{\circ}$ ; the coldest was January, 1898, with a mean of  $12.5^{\circ}$ . The interpolated value for January, 1889, however, is  $12.3^{\circ}$ , and this latter may have been the coldest month on record. Using the actual records the difference between the means of the warmest and coldest months is  $77.0^{\circ}$ . The highest temperature ever observed was  $120^{\circ}$  in August, 1893, and the lowest was  $25^{\circ}$  below zero on December 19, 1899, giving a range of  $145^{\circ}$  at the station during the length of the record. Freezing temperatures have been recorded in every calendar month except July.

The average annual amount of precipitation is 8.84 inches, the largest monthly normal being 1.39 inches in December, while the smallest is 0.16 inch in July. The wettest months are December, February and March, and the driest are from June to September, inclusive. The greatest amount of precipitation in any one month was 7.00 inches, in December, 1891. There are numerous instances where there was no precipitation during the month, the longest dry period being from June to November, inclusive—six months without pre-

cipitation. There was a rainless period of five months in 1891 and of four months in 1892.

The following tables give all available data:

## Monthly and Annual Precipitation.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1889	.....	.....	0.50	.....	1.70	0.10	0.00	0.30	0.05	1.14	0.30	3.75	.....
1890	.....	3.45	2.00	.....	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	.....
1891	0.52	2.48	1.10	0.30	0.00	0.00	0.00	0.00	0.00	1.25	0.02	7.00	12.67
1892	0.35	0.20	1.30	0.30	0.85	0.10	0.00	0.00	0.00	0.00	0.20	0.70	4.00
1893	1.50	0.40	0.80	0.75	0.10	0.00	0.00	0.00	0.00	0.00	1.85	0.35	-6.35
1894	0.30	1.20	2.00	0.05	0.00	1.85	0.00	0.00	0.50	0.50	0.00	.....	.....
1895	.....	2.12	1.15	1.15	0.21	0.47	0.05	0.00	0.30	T	1.55	1.05	8.37
1896	0.98	0.55	2.50	1.45	3.70	0.05	0.15	1.28	0.53	0.40	1.44	0.55	13.58
1897	0.85	2.35	2.20	0.85	0.35	0.10	T	1.75	0.10	3.58	0.77	1.31	14.21
1898	0.69	0.20	1.41	1.73	1.75	0.45	T	0.16	0.27	0.32	2.00	0.90	9.88
1899	1.64	1.19	0.98	0.64	1.75	1.00	0.40	0.60	0.40	0.30	0.15	0.60	9.65
1900	0.25	0.70	0.40	1.95	0.40	0.00	1.25	0.00	0.00	0.90	0.75	0.00	6.60
1901	0.35	1.10	0.90	0.50	0.20	T	T	.....	0.10	.....	0.05	0.30	.....
1902	0.95	0.69	.....	0.70	0.00	.....	0.30	T	.....	T	0.65	.....	.....
1903	.....	1.35	1.00	.....	0.70	1.50	0.30	0.05	T	.....	.....	.....	.....
1904	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Means	0.88	1.22	1.30	0.79	0.86	0.37	0.16	0.32	0.20	0.65	0.70	1.39	8.84

## Monthly and Annual Mean Temperatures.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1889	12 <sup>1</sup>	26	46	56	64	75	79	76	64	54	38	27	51
1890	.....	29	36	50 <sup>1</sup>	62	66	84	83	65	53	36	32	.....
1891	24	29	35	53	67	72	90	84	64	50	46	32	54
1892	25	31	48	47	55	63	74	74	66	48	37	24	49
1893	23	20	33	41	53	66	76	76	69	51	38	35	48
1894	26	20	32	43	54	58	73	63	54	45	42	34	46
1895	19	24	31	48	52	58	66	68	55	45	26	20	43
1896	27	30	33	41	42	65	71	68	54	44	27	31	44
1897	24	23	22	44	56	56	67	73	56	39	32	21	43
1898	12	30	27	46	44	59	70	69	55	36	27	18	41
1899	25	22	31	41	41	55	64	62 <sup>1</sup>	60	35	31	22 <sup>1</sup>	41
1900	.....	.....	.....	.....	.....	73	65	51	42	34	29	.....	.....
1901	24	25	37 <sup>1</sup>	41	55	60 <sup>1</sup>	74	70	56	49	37	30	46
1902	26	33	33 <sup>1</sup>	43	54	64	.....	.....	52	31	.....	.....	.....
1903	27	15	32	42	56 <sup>1</sup>	69	72	56	.....	.....	.....	.....	.....
1904	.....	.....	42	54	67	71	.....	.....	.....	.....	.....	.....	.....
Means	22.6	25.5	34.0	45.2	53.9	63.5	73.5	70.9	59.2	45.9	34.4	27.3	46.3

Extreme values in *italic type*.

<sup>1</sup>No record; mean obtained by applying the departure from the normal at Wells to the normal for the month at Fenelon.

## Temperature Extremes, 1889 to 1904, Inclusive.

Month.	Maximum.	Year.	Day.	Minimum.	Year.	Day.
January	65	1902	12	-22	1895	28
February	61	1901	28	-21	1899	5
March	78	1892	.....	-4	1897	8
April	87	1891	.....	10	1900	8
May	98	1891	.....	19	1896	.....
June	110	1894	.....	30	1902	1
July	115	1894	.....	37	1902	3
August	120	1893	.....	30	1899	13
September	102	1891	.....	22	1895	.....
October	98	1889	.....	10	1898	2
November	73	1891	.....	-18	1896	28
December	63	1890	.....	-25	1899	19



## CLIMATOLOGICAL REPORT FOR NOVEMBER, 1908.

Stations.	Counties.	Elevation (feet)	Length of record (years)	Temperature (degrees Fahrenheit)							Precipitation (inches)				Sky				Observers.	
				Mean.	Departure from the normal.	Highest.	Date	lowest.	Date	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total so far fall unmetted.	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.		Prevailing direction of wind.
Northern Section.																				
Battle Mountain	Lander	1,843	38	37.8	-0.9	61	2	8	27	34	T	-0.50	T	T	0	17	7	6	NW	Agent So. Pacific Co.
Beowawe	Eureka	4,905	38	37.4	+0.5	75	5	10	29	52	0.60	+0.04	0.60		1				W	Agent So. Pacific Co.
Carlin	Elko	5,232	38																	Agent So. Pacific Co.
Clover Valley	Elko	6,000	9	37.7		70	6	5	27	47	0.37		0.17	2.0	3	18	7	5		I. F. Wiseman
Elko	Elko	5,312	38																	Agent So. Pacific Co.
Golconda	Humboldt	4,697	30	35.4	-5.1	58	6	6	28	28	0.00	-0.37	0.00	0.0	0	21	1	8	W	Agent So. Pacific Co.
Halleck	Elko	5,631	16	30.8	-1.8	64	2	-13	28	54	0.27	-0.25	0.16	0.5	3	14	9	7	NW	Agent So. Pacific Co.
Humboldt	Humboldt	4,236	37	37.0	-2.0	60	6	8	28	39	0.00	-0.40	0.00	0.0	0	22	8	0	NW	Agent So. Pacific Co.
Lovelock	Humboldt	3,977	16																	G. S. Webb
Mill City 3	Humboldt	4,391	20																	Agent So. Pacific Co.
Quinn River Ranch	Humboldt	1,850	7	38.0		74	5	5	29	58	0.43		0.33		3				W	F. M. Payne
San Jacinto	Elko		4	32.0		63	7	1	29	45	0.00		0.00	0.0	0	16	11	3	W	Moses Jones
Squaw Valley 2	Elko	5,100	2																	H. D. Glover
Tecoma	Elko	4,812	31	31.8	-2.2	62	3	0	28	50	0.08	-0.34	0.08	T	1	20	6	4	SE	Agent So. Pacific Co.
Wells	Elko	5,631	37	31.0	-2.6	70	3	2	27	57	0.30	-0.38	0.20	3.0	2	23	0	7	SW	Agent So. Pacific Co.
Winnemucca	Humboldt	4,432	30	38.8	+1.3	70	6	6	29	48	0.20	-0.54	0.16	0.1	3	17	10	3	NE	U. S. Weather Bureau
Eastern Section.																				
	Means			35.2							0.20			0.6	1	19	6	5	W	
Cherry Creek	White Pine	6,450	0	37.0		66	4	2	29	48	0.00		0.00	0.0	0	10	18	2	NW	J. H. Leishman
Ely	White Pine	6,000	18	34.2	+0.1	65	3	-5	28	49	0.28	-0.57	0.23	2.5	2	26	2	2	NE	G. C. Hunting
Hamilton 1	White Pine	7,977	2	25.8		38	3	-7	27	15										Geo. Allen
Central Section.																				
	Means			32.3							0.14			1.2	1	18	10	2	NW	
Austin	Lander	6,594	20																	F. H. Triplett
Eureka	Eureka	6,500	6	38.8		67	4	3	27	36	0.15		0.15	2.5	1	16	8	6	N	Clay Simms
Millet	Nye		1	34.2		68	2	-3	26	55	T		T	T	0	20	7	3	N	Fred J. Jones
Potts	Nye	6,990	16	30.4	-4.4	60	4	-13	27	44	0.10	-0.37	0.10	3.0	1	8	12	10	N	Miss Mamie Potts
Western Section.																				
	Means			34.5							0.08			1.8	1	15	9	6	N	
Carson Dam	Churchill	4,032	2	42.0		68	4	10	29	40	T		T	0.0	0	18	5	7	E	J. M. Heizer
Fallon	Churchill	3,965	4	40.7		68	2	6	28	44	T		T	0.0	0	20	6	4	NE	U. S. Reclamation Serv.
Fernley J.	Lyon	4,200	1	42.6	+3.1	69	4	8	28	54	T	-0.37	T	0.0	0	23	5	2		U. S. Reclamation Serv.
Gardnerville	Douglas	4,830	9	40.0		70	7	7	28	49	0.26		0.15	2.5	3	15	8	7	E	William Dangberg
Leetville A	Churchill	4,020	2	41.0		68	4	5	29	44	0.00		0.00	0.0	0	20	10	0	W	U. S. Reclamation Serv.
Lewers' Ranch	Washoe	5,500	21	42.9	-0.7	72	6	11	27	44	1.10	-2.20	1.10	3.0	1	17	10	3		Ross Lewers
Rebo	Washoe	4,532	38	42.7	+1.7	70	4	13	27	42	0.29	-0.80	0.18	1.1	2	16	9	5	SW	Section Center
Soda Lake	Churchill	4,005	2																	U. S. Reclamation Serv.
Wabuska	Lyon	4,347	6	36.4		67	5	0	27	50	0.25		0.25	2.5	1	21	8	1	NE	J. G. Young
Southern Section.																				
	Means			41.0							0.24			1.1	1	19	7	4	NE	
Columbia	Esmeralda	5,750	2	41.0		68	6	11	26	39	T		T	T	0	20	7	3	W	D. E. Hoffman
Geyser	Lincoln		4																	Mrs. J. F. Wambolt
Jean	Lincoln	2,074	1	53.6		78	5	26	28	22	0.00		0.00	0.0	0	20	0	10	W	Agent Salt Lake Route
Las Vegas	Lincoln	2,033	1	49.2		70	18	14	30	46	0.00		0.00	0.0	0	22	2	6	E	Agent Salt Lake Route
Logan	Lincoln	1,700	2	51.7		83	6	20	30	45	T		T	0.00	0	11	17	2	N	Chas. Arney
McAfee's Ranch	Esmeralda	4,835	5	33.4		69	6	0	17	63	0.00		0.00	0.0	0	20	0	10	S	W. T. Carter
Mina	Esmeralda	4,600	2	41.4		72	4	5	23	49	0.10		0.10	1.0	1	15	6	9	W	Agent So. Pacific Co.
Palmetto	Esmeralda	6,780	19																	Wm. Oothout, Jr.
Panaca	Lincoln	4,750	0								0.00		0.00	0.0	0	18	7	5	N	F. E. Edwards
Tonopah	Nye	6,090	2	42.5	+4.0	64	5	13	27	23	T	-0.91	T	T	0	16	11	3	SE	U. S. Weather Bureau
	Means			44.7							0.01			0.1	0	18	6	6	W	*
State Means and Extremes.																				
				38.3	-1.0	83	6	-13	28	63	0.15	-0.58	1.10	0.8	1	18	7	5	W	
																	</			

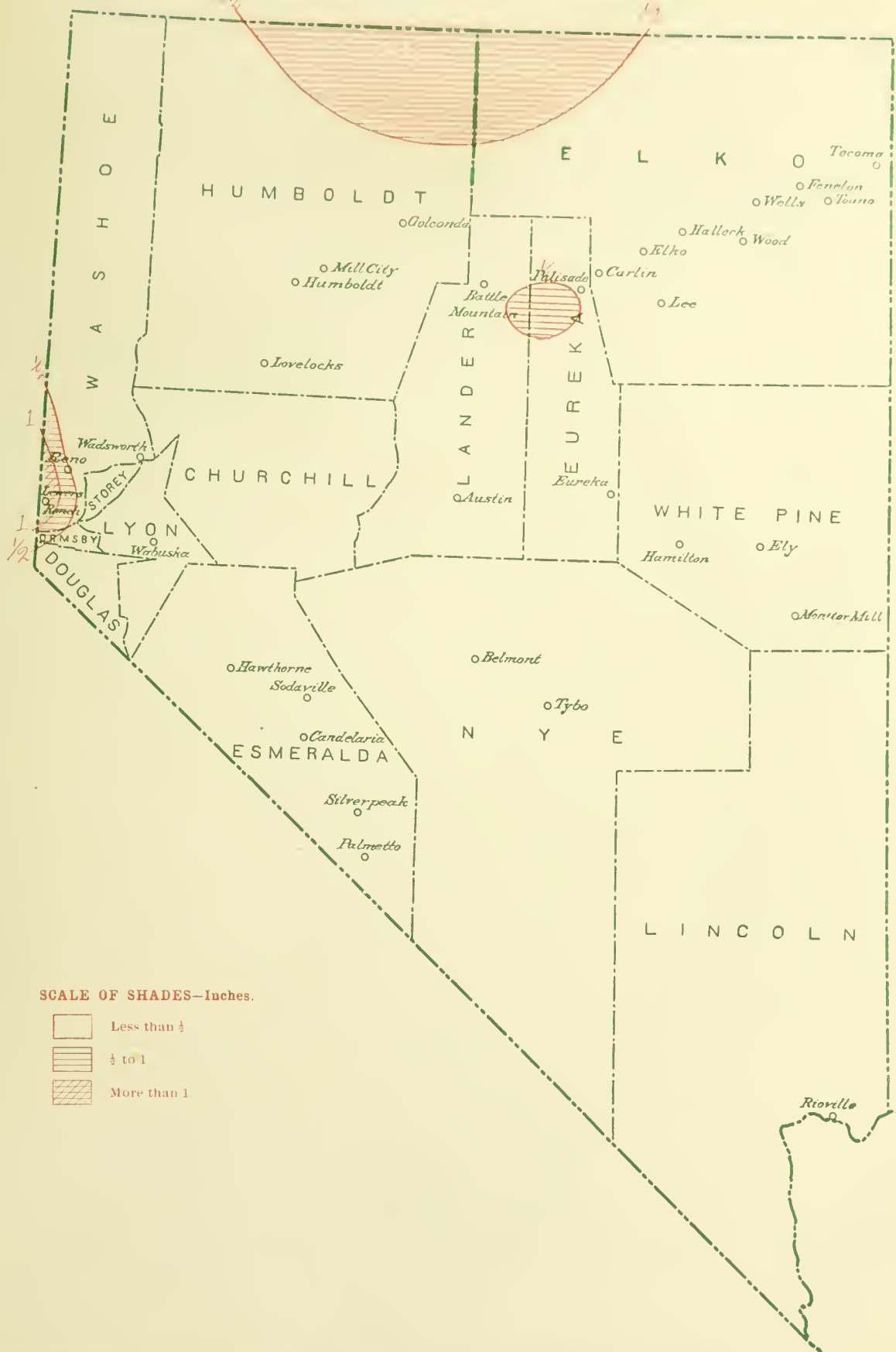
REFERENCES: 2, self-registering maximum and minimum thermometers, not Weather Bureau, in use; 3, means and extremes of temperature from observations by ordinary thermometers at 7 a. m., 2 p. m., and 9 p. m. A small letter placed after the name of a station indicates the number of days missing from the record; for instance, "N" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means.



Stations	Day of Month.																															Monthly means.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Battle Mountain	Max.	62									58	56	50	52	50	50	48	46	44	40	38	38	32	21	25	26	27	28	30	30	32	32	18.0
	Min.	34								60	34	31	30	32	30	30	28	34	32	30	32	30	30	20	10	10	10	8	14	20	20	20	27.6
	Max.									55	69	52	60	60	58	56	60	60	58	65	62	60	55	53	50	48	45	40	45	40	40	40	56.9
	Min.									45	40	41	20	15	17	11	15	15	15	13	13	14	11	12	12	11	12	11	10	10	10	10	10
Carlin	Max.																																57.1
	Min.																																26.9
	Max.	60																															52.7
	Min.	31	33	30	28	31	32	30	28	25	27	25	33	26	28	27	26	27	26	46	41	36	39	31	16	11	11	10	15	15	15	15	52.7
Cherry Creek	Max.	64	60	60	66	65	62	60	60	57	52	57	56	50	53	59	60	60	60	62	48	45	40	31	30	32	37	50	43	43	43	43	21.4
	Min.	25	32	25	26	27	28	25	22	22	22	20	20	22	20	20	23	23	24	28	25	22	20	16	16	12	12	12	12	12	12	12	51.8
	Max.	67	68	65	66	63	60	60	62	62	60	62	61	58	62	61	60	62	48	48	46	40	33	34	36	40	33	48	48	48	48	48	51.8
	Min.	24	26	22	25	23	20	20	21	21	21	24	20	20	18	18	19	18	24	29	24	16	16	12	5	7	6	21	21	21	21	21	20.6
Cobre	Max.																																51.9
	Min.																																27.1
	Max.	61	63	66	67	65	68	62	61	60	61	61	58	59	60	63	60	58	50	53	49	37	35	35	35	37	44	51	51	51	51	51	51.4
	Min.	30	35	32	35	35	34	31	30	28	28	28	28	28	31	29	29	29	25	26	26	29	27	23	23	30	41	43	43	43	43	43	17.0
Ely	Max.	60																															33.1
	Min.	22	19	23	25	25	23	24	24	24	18	18	19	17	17	19	13	19	19	23	21	21	21	21	21	21	21	21	21	21	21	21	33.1
	Max.	59	63	59	67	67	66	64	59	57	56	59	59	60	61	61	61	58	50	45	51	50	30	32	34	35	43	45	45	45	45	45	33.1
	Min.	36	35	35	37	36	33	31	27	25	21	25	23	24	25	27	26	26	26	28	27	20	18	18	18	18	18	18	18	18	18	18	24.4
Fallon	Max.	62	68	66	66	68	64	67	64	60	63	65	60	64	58	57	64	65	66	57	58	53	42	39	37	36	40	46	49	49	49	49	57.8
	Min.	28	24	25	24	25	26	27	25	22	22	22	22	22	20	25	23	25	20	46	38	35	31	17	9	8	6	6	13	13	13	13	23.6
	Max.	63	67	64	69	68	68	67	69	68	66	65	62	68	66	58																	62.6
	Min.	28	26	24	25	27	29	27	29	27	23	25	23	26	26	26	60	65	70	65	60	45	40	34	38	40	48	50	50	48	48	48	22.6
Fernley	Max.	65	63	67	66	66	66	60	67	60	63	62	65	65	67	60	65	70	67	60	60	60	45	40	34	38	40	48	48	48	48	48	59.3
	Min.	25	20	23	21	21	24	20	20	23	18	18	20	19	20	20	21	21	20	30	35	36	24	17	10	8	7	7	14	14	14	14	20.8
	Max.																																
	Min.																																
Gardnerville	Max.																																
	Min.																																
	Max.																																
	Min.																																
Geyser	Max.																																
	Min.																																
	Max.																																
	Min.																																
Golconda	Max.	50	52	54	57	53	58	58	54	54	56	52	49	43	46	46	44	41	43	40	39	38	39	38	39	38	30	29	37	40	40	45.7	
	Min.	32	34	33	34	34	34	33	36	33	32	31	30	30	31	29	26	25	21	19	17	18	15	14	10	18	18	6	10	24	24	25.2	
	Max.																																50.1
	Min.																																11.4
Halleck	Max.																																29.5
	Min.																																22.2
	Max.																																62.0
	Min.																																45.2
Hamilton	Max.	52	51	54	56	58	58	56	58	58	56	52	49	43	46	46	44	41	43	40	39	38	39	38	39	38	30	29	37	40	40	45.7	
	Min.	37	37	38	37	38	37	38	37	38	37	38	37	38	37	38	37	38	37	38	37	38	39	38	39	38	30	29	37	40	40	45.7	
	Max.																																50.1
	Min.																																22.2
Jean	Max.	52	51	54	56	58	58	56	58	58	56	52	49	43	46	46	44	41	43	40	39	38	39	38	39	38	30	29	37	40	40	45.7	
	Min.	37	37	38	37	38	37	38	37	38	37	38	37	38	37	38	37	38	37	38	37	38	39	38	39	38	30	29	37	40	40	45.7	
	Max.																																50.1
	Min.																																22.2
Las Vegas	Max.	52	51	54	56	58	58	56	58	58	56	52	49	43	46	46	44	41	43	40	39	38	39	38	39	38	30	29	37	40	40	45.7	
	Min.	37	37	38	37	38	37	38	37	38	37	38	37	38	37	38	37	38	37	38	37	38	39	38	39	38	30	29	37	40	40	45.7	
	Max.																																50.1
	Min.																																22.2
Leetville	Max.	52	51	54	56	58	58	56	58	58	56	52	49	43	46	46	44	41	43	40	39	38	39	38	39	38	30	29	37	40	40	45.7	
	Min.	37	37	38	37	38	37	38	37	38	37	38	37	38	37	38	37	38	37	38	37	38	39	38	39	38	30	29	37	40	40	45.7	
	Max.																																50.1
	Min.																																22.2
Lewers' Ranch	Max.	52	51	54	56	58	58	56	58	58	56	52	49	43	46	46	44	41	43	40	39	38	39	38	39	38	30	29	37	40	40	45.7	
	Min.	37	37	38	37	38	37	38	37	38	37	38	37	38	37	38	37	38	37	38	37	38	39	38	39	38	30	29	37	40	40	45.7	
	Max.																																50.1
	Min.																																22.2
Logan	Max.	52	51	54	56	58	58	56	58	58	56	52	49	43	46																		



# TOTAL PRECIPITATION FOR NOVEMBER, 1908.





DAILY PRECIPITATION FOR NOVEMBER, 1908.

Stations.	Day of Month.																														T	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
Northern Section.																																
Aura																						0.60		T								T
Battle Mountain																																
Beowawe																																
Carlisle																																
Chover Valley																						0.17	0.10	0.10								
Cobre																																
Elko																																
Golconda																																
Halleck																					0.16											
Humboldt																																
Lovelock																																
Mill City																																
Paradise Valley																					0.13		0.50									
Quinn River Ranch																					0.04		0.06	0.33								
San Jacinto																																
Squaw Valley																						0.08			T							
Tecoma																						0.10			0.20							
Wells																																
Willow Point																					0.02	0.02		0.16								
Winemucca																																
Eastern Section.																																
Cherry Creek																																0.00
Ely																																0.28
Hamilton																																
Central Section.																																
Austin																																0.15
Enreka																																T
Millett																																T
Potts																																0.10
Western Section.																																
Buckskin																																T
Carson Dam																																T
Douglas Ranch																																T
Fallon																																T
Fernley																																T
Gardnerville																																0.26
Glenbrook																																0.01
Leetville																																1.10
Lewers' Ranch																					0.18	T										0.29
Reno																																0.10
Smith																																0.05
Soda Lake																																0.05
Wabuska																																0.25
Yerington																																
Southern Section.																																
Columbia																																T
Fletcher																																
Geysers																																0.00
Jean																																0.00
Las Vegas																																T
Logan																																0.00
McAfee's Ranch																																0.10
Mina																																
Palmetto																																0.00
Panaca																																T
Tonopah																																

T indicates trace. \* Amount included in that of the following day.



ack  
U. S. DEPARTMENT OF AGRICULTURE.

ANNUAL SUMMARY, 1908.

## NEVADA SECTION

OF THE

# CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

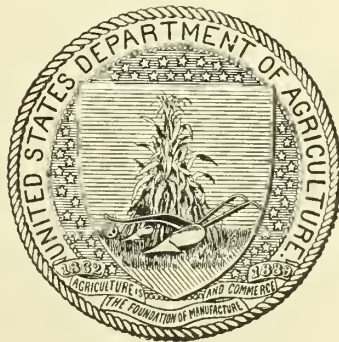
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

H. F. ALPS

SECTION DIRECTOR

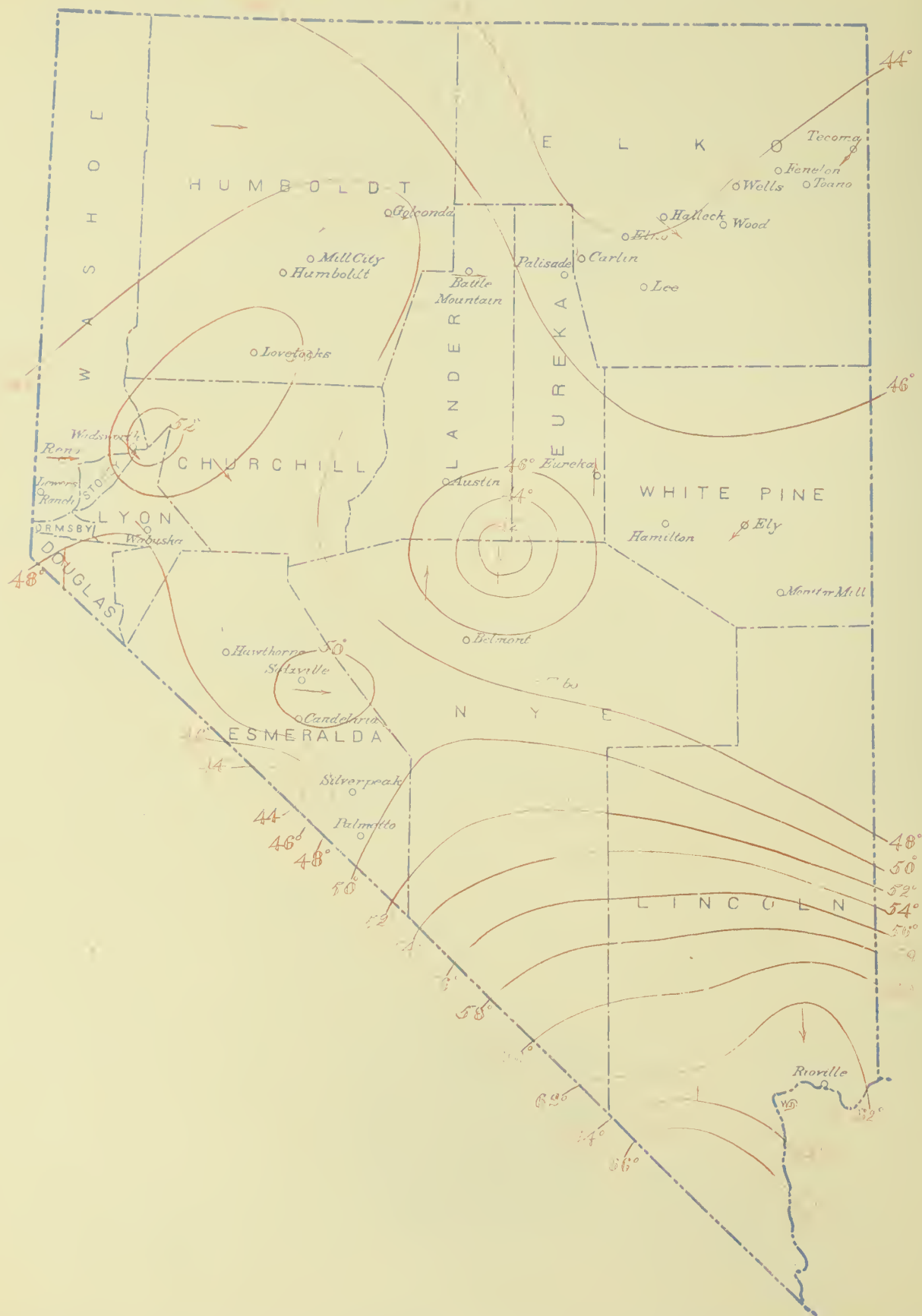


CLEVELAND, OHIO:  
WEATHER BUREAU OFFICE.  
March 17, 1909.



# CHART I. MEAN ISOTHERMS AND PREVAILING WINDS FOR THE YEAR 1908

Lines pass thru points of equal temperature. Arrows fly with the wind.





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,

H. F. ALPS, Section Director.

Vol. XXII.

RENO, NEVADA.

ANNUAL, 1908.

## GENERAL SUMMARY.

The annual mean temperature has been exceeded three times in the past nineteen years. In 1890 and 1900 it was 49.6°, and in 1907 it was 49.4°. The years 1890 and 1900 are the warmest on record, with an average temperature of 0.3° higher than that of 1908. May and June were very cool months, the mean temperature being below normal at all stations. Taking the state as a whole, there were five months having mean temperatures above the normal and seven months having mean temperatures below the normal. The greatest excess in temperature was in January, followed closely by July. The month with the greatest deficiency was May with a mean temperature of 4.6° below the normal. The highest annual mean temperatures occurred in the south portion of Lincoln County, and the lowest in Elko County and the extreme north portion of Nye County.

The annual amount of precipitation is the lowest on record. The second lowest record is 6.49 inches in 1898. There was a deficiency in January, February, March, April and May, the greatest for the year being in March when the amount was 1.05 inches below the normal. The precipitation for March and April is the lowest on record for these months. In June and July there was a slight excess, and in August there was a deficiency. The only month having an excess worthy of notice was September when the amount was decidedly above the normal. October, November and December were deficient. The amount for October was only slightly below the normal, but November was the third driest on record, and only three times has the average amount for December been so light.

The annual mean temperature for the State, 49.3°, was 0.8° above the normal. The highest local annual mean was 66.6° at Jean, Lincoln County, and the lowest was 41.5° at Potts, Nye County. The highest temperature recorded during the year was 116° at Jean on June 30th and July 16th; the lowest was 20° below zero at Halleck, Elko County, on December 18th. The warmest month was July with an average of 74.3°, and the coldest was December with an average of 27.6°.

The last killing frosts of Spring occurred at the majority of the stations in June, and at several stations in May. The first killing frosts of Autumn generally occurred from the latter part of August to the latter part of September, the date of most frequent occurrence being September 25th. At Mc-Afee's Ranch killing frosts occurred during every month in the year, while at Jean the latest in the spring was February 12th, and the first in Autumn was November 25th.

The annual average precipitation for the State, 6.34 inches, is 3.74 inches below the normal. The greatest deficiency was in the western section. The greatest annual precipitation at any station was 14.00 inches at Eureka in the southeastern

portion of Eureka County. The least annual precipitation was 2.10 inches at Mina in the central portion of Esmeralda County. The greatest local monthly precipitation was 4.10 inches at Palmetto in the extreme south portion of Esmeralda County in February, and the least was none at one or more stations during every month in the year except January and February. The wettest month was February with an average of 1.07 inches, and the driest month was November with an average of 0.15 inches.

There was an average of 33 days with measurable precipitation, the greatest number at any station being 72 days at Eureka, and the least number being 10 days at Mina.

The average annual snowfall for the State was 22.7 inches. The heaviest annual snowfall at any station was 100.4 inches at Eureka.

The average number of clear days was 189; partly cloudy, 98; cloudy, 79.

The prevailing direction of the wind was west.

## THE WEATHER BY MONTHS.

*January.*—The month was warm, the mean temperature being the fourth highest on record for January. The temperatures were nearly normal during the first week, but for the remainder of the month they were above it. There were but few stations at which the temperature fell to zero or below. At Jean, the first freezing temperature for the winter was recorded. The precipitation was below the normal. Widely scattered showers occurred on the 3d, 4th, and 8th, while on the 14th precipitation was general. The snowfall was about the usual amount.

*February.*—The mean temperature was above the normal, while the precipitation was less than the usual amount. The temperature exceeded the normal during the first and third decades, and it averaged below the normal during the second decade. The precipitation was greatest at stations of high altitude in White Pine, Eureka, and Esmeralda Counties. Over most of the northern portion the amount was less than an inch, while it exceeded this amount at about one-half of the stations in the southern portion. The snowfall was less than the normal.

*March.*—The month was extremely dry, the average precipitation being the lowest on record for March. Most of the precipitation fell over the western portion of White Pine County, southwestern portion of Elko County, and the greater portions of Eureka and Lander Counties. The amounts were generally less than 0.25 inch over the remainder of the State. The snowfall was very light. The mean temperature was the fourth highest on record. The highest, 91° at Las Vegas on the 17th, is the highest temperature ever recorded in March. The temperatures over the northern half of the State averaged slightly below the normal; over the southern half they were much above normal.

*April.*—The month was the driest on record for April, the weather being a continuation of that prevailing during March. The greater part of the precipitation fell over Eureka and Lander Counties, the southwestern portion of Elko County, and the eastern portions of Humboldt and Churchill Counties. Snow fell at a few stations of high altitude on the 6th, 7th, 22d, 23d and 24th. The mean temperature was the highest on record with but two exceptions—1889 and 1898. The month opened with temperatures below the normal, but gradually warmed until about the 5th when a cool period started which culminated on the 7th. The temperature then rose and remained above the normal from the 9th to the 21st. There were several small fluctuations above and below the normal during the last decade, the month closing with warm weather.



*May.*—The month was the third coldest on record. The lowest mean temperature ever recorded in May was 48.2° in 1896, which is 1.7° lower than the mean for May, 1908. With but few exceptions the daily temperatures were below the normal during the entire month. At practically all the stations, except those in the extreme southern portion, the monthly minimum was between 15° and 25°. The precipitation averaged about the normal. It was well distributed thruout the month, except in the southern section where it was nearly all recorded during the first fifteen days.

*June.*—Both temperature and precipitation averaged about the normal. The month started with cool weather; the temperature reached normal about the 7th and remained above until the beginning of another cool period on the 15th. This period culminated on the 22d, and from the 24th to the end of the month the weather was alternately warm and cool, the month closing warm. Most of the precipitation occurred during the first two decades. Light snow fell at scattered stations in the northern portion, occurring mostly on the 2d and 3d. Fourteen inches were recorded at Hamilton, five inches at Mill City, and three inches at Winnemucca.

*July.*—The mean temperature for the month was the third highest on record. There were no decided periods of cool weather. The temperature rose above 90° on a great majority of the days, except at stations of high altitude. Maximum temperatures of 100° and higher occurred daily at Jean and Logan, and every day but two at Las Vegas; these three stations are in Lincoln County. The precipitation was nearly normal. It was generally heaviest in the higher altitudes of the eastern and central sections, and was well distributed thruout the month. In the northern and western sections it was confined to the two periods from the 7th to the 14th and from the 20th to the 28th, while in the southern section the showers occurred from the 11th to the 13th and from the 22d to the end of the month.

*August.*—The mean temperature was above normal, and the average precipitation was below normal. The minimum temperature of 18° at Geyser on the 17th and 19th, is the lowest on record at any station during August. Temperatures were above the normal until about the 11th when a cool period began and continued until the 17th. Nearly normal conditions then prevailed until about the 21st, after which a sharp decline set in and the month closed with cool weather. Killing frosts occurred at favorably located stations during the latter part of the month. The precipitation occurred almost entirely during the first two decades, and was well scattered over the State. A trace of snow fell at Hamilton on the 14th.

*August.*—Seasonal temperatures prevailed, but the precipitation was decidedly above the normal. The month opened with nearly normal temperatures and gradually rose until the 4th and 5th when the highest temperatures for the month were recorded. It was about normal then until the 16th, except that the weather was comparatively cool in the northern portion on the 7th and 8th. It was cool on the 16th, 17th, and 18th, but from the 19th to the 22d departures were generally above normal. There was a sharp drop in temperature after the 22d, but conditions became normal again on the 29th and 30th. Freezing temperatures occurred at all stations except those in the southern portion. The precipitation was heaviest over the southeastern portion, especially in Lincoln County, where the average amount was in excess of one and one-half inches.

*October.*—The month was cool, especially over the eastern portion of the State. The precipitation was about the usual amount. The beginning of the month was cool; from the 6th to the 14th the temperature was above normal over the western portion and nearly normal over the eastern districts. Be-

ginning with the 15th a cold spell set in, lasting to the 25th over the western half, and to the end of the month over the eastern portion. Killing frosts occurred at Las Vegas and Logan on the 19th and 20th. This is unusually early for that section. The precipitation was confined to the first two decades, occurring mostly from the 1st to the 3d and from the 14th to the 20th over the northern half, and from the 15th to the 18th over the remainder. Snow was general at stations of high altitudes.

*November.*—The temperature was one degree below the normal. Moderately warm weather prevailed during the first two decades, the temperature being above normal until the 22d, except in the northern, eastern and southeastern portions, where it was about normal from the 9th to the 15th. On the 20th a rapid fall began and the cold spell continued during the remainder of the month. The coldest period was from the 25th to the 29th, with rising temperatures on the last day of the month. The precipitation was very light, there being but three drier Novembers on record. It was all recorded from the 20th to the 25th, inclusive, the greatest amount falling on the 23d. At eight stations there was only a trace of rain or snow, and at nine stations there was no precipitation. The amount was greatest in the extreme southwest portion of Washoe County, and least in the south portion of the state. Snow fell at all stations reporting precipitation except Logan in Lincoln County, and three stations in Churchill County.

*December.*—Unusually cold weather prevailed, the month being the third coldest on record. The mean temperature was below normal at all stations. A period of cold weather was general from the 14th to the 25th, and very low temperatures were recorded from the 17th to the 21st. The daily mean temperatures were generally normal or slightly above, from the 1st to the 9th, on the 12th and 13th, and from the 23d to the end of the month. There were but three stations at which the monthly mean temperature did not fall to freezing or below, and these stations are in the southern part of the State. The precipitation was much below the normal in all sections. The records show but one December when the amount was less, and that was in 1903 when the average precipitation was only 0.14 inch. There was no precipitation after the 17th, except at scattered stations in Elko and Humboldt Counties on the 23d, and at Lewers' Ranch in the extreme southwest portion of Washoe County on the same date. Snow fell at nearly all stations reporting precipitation, the greatest depth for the month being twelve inches at Gardnerville, Douglas County.

COMPARATIVE ANNUAL DATA FOR THE STATE.

Year.	TEMPERATURE.			Precipitation.
	Mean.	Maximum.	Minimum.	
1890.....	49.6	118	-39	12.88
1891.....	48.3	101	-30	14.06
1892.....	48.5	115	-25	10.54
1893.....	48.3	110	-40	9.22
1894.....	48.8	108	-41	10.89
1895.....	47.1	112	-35	7.90
1896.....	48.7	117	-26	10.61
1897.....	48.5	116	-22	9.79
1898.....	47.9	114	-28	6.49
1899.....	48.6	110	-29	9.12
1900.....	49.6	113	-12	8.25
1901.....	48.0	104	-27	13.20
1902.....	48.0	117	-32	7.25
1903.....	48.1	111	-32	7.06
1904.....	49.2	110	-23	10.62
1905.....	47.1	109	-37	8.32
1906.....	48.5	115	-22	15.87
1907.....	49.4	113	-28	13.06
1908.....	49.3	116	-20	6.34
Entire Period.....	48.5	118	-41	10.08



## Climatological Data for the Year 1908.

Stations.	Counties.	Temperature (degrees Fahrenheit)								Precipitation (inches)										
		Elevation, feet	Length of record, years	Annual mean.	Highest	Date.	Lowest	Date.	Length of record, years	Total for the year	Greatest monthly	Month	Least monthly	Month	Total snowfall	Number of days	Number of days	Number of days	Number of days	Prevailing wind
NORTHERN SECTION.																				
Battle Mountain.	Lander	4,843	38	46.6	102	July 21	8	Dec. 19	38	9.45	2.51	May	0.11	Apr.	15.0	48	161	132	7	W
Clover Valley	Elko	6,000	9	45.3	94	July 11	9	Jan. 11	9	6.25	1.15	May*	0.00	Nov.*	2.5	20	229	25	100	W
Golconda	Humboldt	4,607	30	49.1	102	July 8	4	Dec. 18	30	9.12	2.19	May	0.20	Dec.	28.0	45	147	166	100	W
Halleck	Elko	5,631	16	43.4	100	July 31	20	Dec. 18	16	9.12	2.19	May	0.20	Dec.	28.0	45	147	166	100	W
Humboldt	Humboldt	4,236	31	49.6	97	July 31	8	Dec. 21	38	9.12	2.19	May	0.20	Dec.	28.0	45	147	166	100	W
Quinn River Ranch	Humboldt	4,850	7	47.2	105	July 31*	8	Dec. 16	7	6.29	2.88	June	0.00	Nov.	22.0	25	167	19	100	W
San Jacinto	Elko	4,812	4	43.4	100	Aug. 8	8	Dec. 16	4	6.29	2.88	June	0.00	Nov.	22.0	25	167	19	100	W
Tecoma	Elko	4,812	31	44.3	97	July 10*	10	Jan. 30*	31	6.29	2.88	June	0.00	Nov.	22.0	25	167	19	100	W
Winnemucca	Humboldt	4,432	30	48.2	100	Aug. 8	5	Dec. 19	30	6.42	1.23	Sept.	0.03	Dec.	10.5	45	192	92	82	W
Means				46.3						7.57					15.6	47	176	104	86	W-W
EASTERN SECTION.																				
Ely	White Pine	6,000	18	46.3	96	July 21	11	Dec. 18	18	7.45	1.15	Feb.	T.	Apr.	.....	42	213	103	50	W
CENTRAL SECTION.																				
Eureka	Eureka	6,500	6	46.4	94	Aug. 8	8	Dec. 18	6	14.00	2.55	Feb.	0.15	Nov.	100.4	72	132	125	109	S
Millet	Nye	.....	1	45.7	96	July 20	10	Dec. 19	1	5.18	1.14	Feb.	0.00	June	11.2	26	220	95	51	S
Potts	Nye	6,990	16	41.5	96	July 10	19	Dec. 18	16	3.34	1.30	Feb.	T.	June	30.5	30	92	108	166	W
Means				44.5						7.51					47.4	43	148	109	169	S
WESTERN SECTION.																				
Fallon	Churchill	3,965	4	50.9	103	Aug. 8	2	Dec. 19*	4	3.27	0.92	May	T.	Nov.	5.3	29	217	111	38	W-W
Fernley	Lyon	4,200	1	52.2	102	Aug. 8	10	Dec. 18	1	3.42	0.83	May	T.	Mar.	19.3	31	239	67	60	W-W
Gardnerville	Douglas	4,830	9	48.1	98	Aug. 1	17	Dec. 19	9	6.05	1.40	Feb.	0.00	Apr.*	49.5	25	.....	.....	.....	W-W
Leetville	Churchill	4,020	2	.....	103	July 31	.....	.....	2	.....	.....	.....	.....	Aug.*	.....	.....	.....	.....	.....	W-W
Lewers' Ranch	Washoe	5,500	21	49.0	102	Aug. 1	3	Dec. 18	21	10.67	2.80	May	0.00	Aug.	.....	33	.....	.....	.....	W-W
Reno	Washoe	4,532	38	49.6	100	Aug. 7	1	Dec. 18	38	5.42	1.53	July	0.11	April	12.8	50	196	106	64	W-W
Wabuska	Lyon	4,347	6	48.0	100	Aug. 8	18	Dec. 18	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W-W
Means				49.6						5.77					21.7	34	217	95	54	W-W
SOUTHERN SECTION.																				
Columbia	Esmeralda	5,750	2	51.8	97	Aug. 2	2	Mar. 7	2	.....	2.31	Feb.	.....	Nov.	51.5	.....	.....	.....	.....	.....
Jean	Lincoln	2,074	1	66.6	116	June 30*	18	Dec. 15	1	5.47	2.71	Sept.	0.00	Apr.*	0.0	15	268	14	84	.....
Las Vegas	Lincoln	2,033	1	61.3	111	July 21	12	Dec. 20*	1	4.73	1.35	Aug.	0.00	Nov.	T.	18	.....	.....	.....	.....
Logan	Lincoln	1,700	2	63.4	113	July 20*	19	Dec. 19	2	7.51	1.90	Jan.	T.	June*	0.0	31	182	141	43	.....
McAfee's Ranch	Esmeralda	4,835	5	43.2	94	July 21	17	Nov. 25*	5	5.05	1.10	Jan.	0.00	Nov.	23.5	19	224	27	115	W-S
Mina	Esmeralda	4,600	2	51.6	104	Aug. 3	1	Dec. 20	2	2.10	0.70	Feb.	0.00	May*	15.0	10	.....	.....	.....	W-S
Tonopah	Nye	6,090	2	49.4	94	July 20*	7	Dec. 18	2	5.30	1.10	Jan.	T.	June*	33.6	41	182	143	41	W-S
Means				55.3						5.03					17.7	22	214	81	71	.....
State Means and Extremes				49.3	116	June 30*	20	Dec. 18	.....	6.34	2.88	June	0.00	Apr.*	22.7	33	189	98	79	W.

\* Also on other dates.

† The maximum thermometer is not supplied by the Weather Bureau, but is of standard make.

## KILLING FROSTS.

Station.	Last in Spring	First in Autumn	Station.	Last in Spring	First in Autumn	Station.	Last in Spring	First in Autumn	Station.	Last in Spring	First in Autumn
Battle Mountain	June 3	Sept. 30	Fallon	May 30	Sept. 25	Las Vegas	Apr. 4	Oct. 19	Reno	May 10	Sept. 25
Carlin	June 6	Sept. 19	Fernley	May 30	Sept. 25	Leetville	May 31	Sept. 25	San Jacinto	June 28	Aug. 26
Carson Dam	May 16	Sept. 24	Gardnerville	June 3	Sept. 25	Lewers' Ranch	June 22	Sept. 25	Soda Lake	June 4	.....
Cherry Creek	June 18	Aug. 23	Geyser	June 17	Aug. 17	Logan	Oct. 20	.....	Tecoma	June 4	Aug. 26
Clover Valley	June 23	Aug. 31	Golconda	June 4	Sept. 24	McAfee's Ranch	July 16	Aug. 30	Tonopah	June 3	Oct. 2
Columbia	June 4	Sept. 26	Halleck	June 28	Aug. 24	Millet	June 23	Aug. 31	Wabuska	June 23	Aug. 31
Elko	.....	Sept. 25	Hamilton	June 28	Aug. 30	Mina	June 6	Sept. 25	Wells	June 26	Aug. 23
Eureka	June 3	Sept. 25	Humboldt	.....	Sept. 25	Potts	June 27	Aug. 25	Winnemucca	June 2	Sept. 24
Ely	June 23	Sept. 25	Jean	Feb. 12	Nov. 25	Quinn River Ranch	June 24	Aug. 28	.....	.....	.....



Monthly and Annual Mean Temperatures for the Year 1908, with Departures from the Normal.

Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.	
	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.
<b>NORTHERN SECTION.</b>																										
Battle Mountain .....	29.4	+1.2	33.6	+1.5	39.4	-2.1	49.4	-0.4	48.3	-9.0	57.8	-9.0	72.0	-3.2	68.4	-5.7	54.9	-7.6	46.6	-3.0	37.8	-0.9	22.0	-9.1	46.6	-4.0
Beowawe .....	35.6	+9.2	...	...	41.2	0.0	55.3	+6.0	51.6	-6.4	...	...	76.8	-0.4	77.0	+1.9	...	...	47.0	-1.9	37.4	+0.5	21.8	-8.0	...	...
Carlin .....	22.0	+0.9	23.0	-3.5	34.4	-0.2	45.0	+1.3	47.8	-5.3	59.3	-3.4	73.8	+3.2	68.2	-0.9	58.6	+0.5	44.0	-0.8	...	...	...	...	...	...
Clover Valley .....	25.8	...	31.0	...	38.8	...	47.2	...	46.4	...	54.9	...	69.2	...	64.4	...	...	...	44.6	...	37.7	...	26.9	...	45.3	...
Elko .....	32.8	+10.1	22.2	-6.1	41.2	+4.8	...	...	...	...	...	...	...	...	...	...	55.4	-1.4	47.9	+4.3	...	...	...	...	...	...
Gileonda .....	36.4	+8.6	39.6	+5.6	42.9	+2.2	46.4	-1.6	51.2	-5.4	61.4	-5.9	76.6	+0.3	72.1	-0.5	58.3	-3.3	45.2	-5.4	35.4	-5.1	23.9	-8.8	49.1	-1.6
Hallock .....	25.2	+3.4	30.5	+4.5	35.2	+2.8	45.9	+2.4	44.2	-7.9	55.7	-6.0	70.1	+0.4	64.0	-2.7	55.4	-0.6	41.2	-2.0	30.8	-1.8	22.2	-2.7	43.4	-0.8
Humbolt .....	32.8	+2.9	32.7	-1.1	38.7	-2.9	53.7	+3.9	54.7	-3.2	63.3	-2.5	76.4	+2.4	72.8	+0.8	58.3	-3.0	46.2	-3.1	37.0	-2.0	28.4	-3.4	49.6	-0.9
Lovelock .....	...	...	38.6	+3.1	40.8	-2.7	52.2	+1.4	...	...	61.5	-6.3	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mill City .....	34.2	+4.8	35.8	+2.5	40.5	+0.3	51.0	+2.1	50.6	-4.2	63.2	-4.4	80.6	+4.8	71.0	-1.9	...	...	41.8	-9.2	...	...	...	...	...	...
Quinn River Ranch .....	30.8	...	35.3	...	38.1	...	48.1	...	48.4	...	57.2	...	73.3	...	67.4	...	58.9	...	44.9	...	38.0	...	26.4	...	47.2	...
San Jacinto .....	27.0	...	30.2	...	34.3	...	45.6	...	46.6	...	54.7	...	69.0	...	60.0	...	52.5	...	41.5	...	32.0	...	27.0	...	43.4	...
Tecoma .....	20.2	-2.2	25.6	1.3	42.4	+5.6	49.1	+2.0	48.3	-6.9	58.1	-5.7	70.8	-3.4	63.5	-9.3	55.4	-5.0	43.6	-2.2	31.8	-2.2	23.0	-3.9	44.3	-2.8
Wells .....	...	...	33.1	+7.6	36.6	+2.4	49.0	+4.0	45.0	-8.2	54.2	-8.4	69.8	-1.3	63.4	-5.2	53.6	-4.5	43.2	-2.6	31.0	-2.6	23.2	-1.9	...	...
Winnemucca .....	33.6	+4.8	36.3	+3.0	38.7	-0.9	48.0	+0.9	48.2	-6.2	58.3	-5.0	74.0	+2.4	68.4	-2.4	58.8	-1.7	45.7	-2.9	38.8	+1.3	29.4	-1.3	48.2	-0.6
<b>EASTERN SECTION.</b>																										
Cherry Creek .....	...	...	...	...	35.2	...	41.8	...	42.5	...	51.6	...	64.9	...	59.8	...	...	...	43.3	...	37.0	...	30.0	...	...	...
Ely .....	30.2	+6.1	26.8	-1.9	39.3	+6.4	47.5	+5.3	48.2	-2.5	56.0	-4.3	72.8	+5.8	68.4	+3.8	57.7	+2.5	46.0	+2.6	34.2	+0.1	28.9	+2.3	46.3	+2.2
Hamilton .....	...	...	...	...	...	...	38.8	...	34.2	...	43.6	...	56.6	...	53.7	...	45.9	...	33.2	...	25.8	...	18.6	...	...	...
<b>CENTRAL SECTION.</b>																										
Austin .....	28.4	+1.6	31.0	+0.3	37.9	+2.8	47.8	+4.4	44.0	-7.1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Eureka .....	30.4	...	31.0	...	36.8	...	46.6	...	45.2	...	56.4	...	71.3	...	67.2	...	59.1	...	44.4	...	38.8	...	29.1	...	46.4	...
Millert .....	26.6	...	32.4	...	39.4	...	47.5	...	48.5	...	57.9	...	70.8	...	66.1	...	57.3	...	43.6	...	34.2	...	24.4	...	45.7	...
Potts .....	23.5	-1.2	23.6	-3.5	32.9	0.0	42.1	-2.4	43.4	-9.8	54.6	-9.9	68.4	-2.2	62.6	-5.2	52.9	-2.8	39.8	-4.8	30.4	-4.4	23.6	-1.3	41.5	-3.9
<b>WESTERN SECTION.</b>																										
Carson Dam .....	36.0	...	38.4	...	...	...	51.9	...	51.0	...	65.5	...	78.5	...	73.0	...	62.3	...	49.4	...	42.0	...	29.9	...	...	...
Fallon .....	34.8	...	38.6	...	42.6	...	52.6	...	51.6	...	62.8	...	76.4	...	72.2	...	61.5	...	48.3	...	40.7	...	28.8	...	50.9	...
Fernley .....	35.6	+4.4	38.2	+1.2	44.0	+2.4	53.6	+3.2	52.2	-6.4	64.1	-2.7	79.6	+1.7	75.0	-0.2	63.0	0.0	49.2	-1.0	42.6	+3.1	29.7	-2.5	52.2	+0.2
Gardnerville .....	32.0	...	36.4	...	42.8	...	48.7	...	51.4	...	60.0	...	71.2	...	67.2	...	59.8	...	42.0	...	40.0	...	26.0	...	48.1	...
Leetville .....	35.2	...	40.7	...	45.6	...	52.0	...	52.6	...	64.0	...	77.8	...	72.7	...	62.2	...	49.0	...	41.0	...	...	...	...	...
Lewer's Ranch .....	35.3	+1.5	36.2	+1.9	43.2	+3.6	49.6	+3.6	47.6	-5.5	57.1	-3.0	71.2	+3.5	68.6	+0.5	60.2	-0.1	44.6	-6.6	42.9	-0.7	32.0	-2.4	49.0	-0.4
Reno .....	35.6	+3.1	37.0	+1.4	41.2	+0.2	49.4	+2.1	48.7	-4.9	59.4	-1.6	73.3	+5.8	68.9	+1.9	59.6	-0.1	47.8	-1.9	42.7	+1.7	31.4	-2.3	49.6	+0.5
Soda Lake .....	36.4	...	39.4	...	44.6	...	53.1	...	53.5	...	65.0	...	79.6	...	76.8	...	64.2	...	50.1	...	...	...	...	...	...	...
Wabuska .....	34.0	...	34.6	...	41.2	...	50.2	...	51.1	...	60.4	...	72.1	...	67.0	...	57.2	...	45.2	...	36.4	...	26.4	...	48.0	...
<b>SOUTHERN SECTION.</b>																										
Columbia .....	37.7	...	37.4	...	45.8	...	53.6	...	52.9	...	63.0	...	75.0	...	71.0	...	62.8	...	48.0	...	41.0	...	33.2	...	51.8	...
Geyser .....	28.0	...	24.0	...	33.4	...	46.4	...	48.6	...	62.5	...	69.4	...	67.4	...	...	...	...	...	...	...	...	...	...	...
Jean .....	49.8	...	49.9	...	61.8	...	69.2	...	68.0	...	87.4	...	95.0	...	89.4	...	78.3	...	60.3	...	53.6	...	36.0	...	66.6	...
Las Vegas .....	43.2	...	43.6	...	56.2	...	64.2	...	67.4	...	74.2	...	84.4	...	81.9	...	70.8	...	58.6	...	49.2	...	41.6	...	61.3	...
Logan .....	45.1	...	49.9	...	56.4	...	64.6	...	67.0	...	76.1	...	88.4	...	83.8	...	75.2	...	60.6	...	51.7	...	42.4	...	63.4	...
McAfee's Ranch .....	26.4	...	26.8	...	34.0	...	46.0	...	46.8	...	53.6	...	66.0	...	61.2	...	55.8	...	44.8	...	33.4	...	23.9	...	43.2	...
Mina .....	35.6	...	35.2	...	48.1	...	50.0	...	46.8	...	64.6	...	81.0	...	74.9	...	64.9	...	45.5	...	41.4	...	31.6	...	51.6	...
Palmetto .....	29.3	-0.7	28.4	-3.5	37.2	+0.7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Panaca .....	...	...	...	...	...	...	...	...	74.3	...	76.2	...	72.1	...	...	...	...	...	54.6	...	...	...	...	...	...	...
Tonopah .....	33.6	...	31.4	...	40.9	...	49.2	...	47.4	...	61.2	...	75.2	...	70.9	...	61.5	...	46.9	...	42.5	...	31.9	...	49.4	...



## Monthly Maximum Temperatures for the Year 1908, with Dates.

Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.	
	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.
<b>NORTHERN SECTION.</b>																								
Battle Mountain.....	50	18	64	27	66	17	78	30	78	1	96	29*	102	21*	96	3	76	3*	76	6*	61	2	48	1
Beowawe.....	50	10*			60	17*	80	19*	80	2*			101	30	100	1			67		75	5	47	29
Carlin.....	18	7	44	29	54	28	81	30	83	1	96	25	106	10	106	1	100	5	88					
Clover Valley.....	45	11	58	26	71	16	83	19	79	1	89	24	94	11*	93	1*	87	1	84	9	70	6	51	26*
Elko.....	70	12	50	7	65	15*											92	5	95	1				
Gileonda.....	59	14	78	27	80	16	81	13	80	1	91	16	102	8	101	3	89	2*	75	9	55	6*	11	1
Halleck.....	45	11*	55	27	64	15*	81	13	80	1	92	24	100	31	97	1*	93	5	79	1	61	2	50	5
Humboldt.....	50	8	57	26	60	15	82	12	78	24	88	30	97	31	97	7*	88	4	76	9	60	6	53	26
Lovelock.....			68	25*	76	15	85	12			96	30												
Mill City.....	50	8	62	20	70	15*	80	26	76	5*	92	30	98	11	101	7			67	23				
Quinn River Ranch.....	49	19*	67	26	75	16	82	19	81	24	92	30	105	31	105	7*	97	5			74	5	53	1
San Jacinto.....	48	18	57	28	67	16	79	19	79	6	89	25	95	12	100	8	90	4*	78	8	63	7	50	1*
Tecoma.....	45	14	58	28	68	21	75	27*	78	1	85	30	97	10*	96	1	93	4	80	1	62	3*	54	27
Wells.....			57	28	62	24	72	18*	80	10	88	25	100	11*	98	1*	97	2	79	10	79	1*	57	27
Winnemucca.....	53	18	69	26	75	15	81	19	79	6	91	30	98	31	100	8	94	4	81	8	70	6	55	26
<b>EASTERN SECTION.</b>																								
Cherry Creek.....					67	16	76	19	82	25	88	25	98	21	97	5			78	9	66	4	56	27
Ely.....	54	10	53	26	74	13	76	12	80	1	85	13*	96	21	91	3*	92	5	79	1	65	3*	59	25
Hamilton.....	34	17	34	27			59	12*	57	1*	64	25*	73	23*	70	2*	67	5*	54	2*	38	3*	37	28
<b>CENTRAL SECTION.</b>																								
Austin.....	46	9	55	25	65	16	72	13*	74	1														
Eureka.....	53	8	55	26	71	16	76	12*	76	1*	87	25	93	3*	94	8	90	5	78	9	67	4*	53	26
Millett.....	54	20	62	26	75	16	79	12*	79	18*	90	30	96	20	94	7*	92	5	79	10	68	2*	55	27
Potts.....	47	20	46	27	61	16*	74	30	75	29	89	30	96	10	94	8	92	5	76	6	60	4*	48	28
<b>WESTERN SECTION.</b>																								
Carson Dam.....	55	9*	69	26			81	19	80	5	93	30	102	31	100	1*	94	5	80	8	68	4	55	27
Fallon.....	56	18*	71	25	78	14*	89	3	80	29	93	30	101	20	103	8	94	5	82	1	68	2*	56	4
Fernley.....	56	20	71	26	81	16	83	30	84	24	95	30	101	31	102	8	91	1*	82	10	69	4*	56	9
Gardnerville.....	59	22	75	25*	81	17	87	11	86	30	95	26	97	12*	98	1	93	6	84	1	70	7*	52	9*
Leetville.....	55	18*	79	27	85	24	83	12	83	6	94	30	103	31	102	9	93	4*	82	1*	68	4*		
Lewer's Ranch.....	59	19	69	26	76	16	81	27	75	5	86	29*	101	19	102	1	91	5	71	27	72	6*	58	26
Reno.....	58	8	72	26	75	16	78	11	78	24	91	30	99	30	100	7	91	5	79	9	70	4	59	26
Soda Lake.....	56	18*	72	25*	81	16	83	12	82	6	95	30	103	31	102	1*	96	5	80	8				
Wabuska.....	60	8	60	10	74	20*	88	12	81	6*	92	30	95	2*	100	8	88	4	78	1	67	5	58	4
<b>SOUTHERN SECTION.</b>																								
Columbia.....	66	14	76	19	78	14*	84	18	80	6	90	28	96	10	97	2	91	4	78	9*	68	6	55	25
Geyser.....	58	7	59	27	72	14	77	12*	78	20*	95	26	105	27	105	5								
Jean.....	62	9*	78	27	88	16	90	19*	88	6	116	30	116	16	102	7*	101	5	90	10	78	5	55	8
Las Vegas.....	75	16	78	28	91	17	91	13	99	25*	108	30	111	21	107	7*	105	6	83	2	70	18*	69	3
Logan.....	65	6*	75	28	87	17*	91	18*	95	25*	107	28*	113	20*	108	7	108	8*	83	6	67	6	67	24
McAfee's Ranch.....	58	9	60	28	71	17*	78	7*	80	18*	88	30	94	21	92	2*	89	4*	93	9*	69	6	55	28*
Mina.....	54	5*	53	13	69	20	82	14	75	28	99	28*	103	25	104	3	92	5	69	12	72	4*	58	25
Palmetto.....	56	9*	62	25	74	16																		
Panaca.....											95	30	98	10*	86	6			79	9*				
Tonopah.....	48	8	53	27	68	16	72	12	73	29	85	25	94	20	94	2	87	5	72	10	64	5	51	25

\* Occurred on other dates also.



## Monthly Minimum Temperatures for the Year 1908, with Dates.

Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.	
	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.
NORTHERN SECTION.																								
Battle Mountain .....	10	31	18	1	16	6*	24	7	30	8*	30	3	40	15	44	30	28	25	28	19*	8	27*	- 8	19
Boonawye .....	8	31	10	18	6	30	2*	23	31	3*	42	24	45	16	11	26	28	20*	10	29*	0	21		
Carlin .....	0	17	10	16*	11	31	14	7	15	10	29	3*	41	15*	23	31	11	21	5	27	- 7	18*		
Clover Valley .....	- 9	31	3	1*	12	6	6	1	20	10	29	3	40	6	32	31	19	25*	12	21*	5	27	- 7	18*
Elko .....	0	26*	0	11*	20	24*	7	30	5	29	1	48	1	41	15	22	25	16	23	6	28	- 4	18	
Gileonda .....	8	31	11	13	11	7	10	7	26	5	29	1	39	6*	23	31	8	26	9	21*	-13	28	-20	18
Halleck .....	17	31	2	13	5	6	10	1	14	10	28	3	41	17	22	31	22	25	17	23	8	28	- 8	21
Humbolt .....	17	7*	12	13*	15	19*	15	6	28	9*	31	4	52	6	40	30*	23	26	19	23	8	28	- 8	21
Lovelock .....	12	31	12	13	18	7*	11	1	30	8*	32	3	60	6	42	30	22	26	18	18*	5	29	- 9	18
Mill City .....	5	25*	10	2	7	6	4	1	15	10	28	23	41	17	22	31	22	26	10	21	1	29	- 8	16
Quinn River Ranch .....	- 4	31	- 3	2	2	6	16	5*	23	13	32	23*	36	11	24	31	14	25*	10	21	1	29	- 8	16
San Jacinto .....	-10	30*	- 2	1	11	6	15	7	21	12	52	4	41	17	26	31	12	26*	6	22	0	28	-10	15*
Tecoma .....	9	31	12	13	9	30	26	29	14	10	28	1*	36	2*	28	31	6	25	12	16*	2	27*	-19	18
Wells .....	9	31	12	13	9	30	12	1	21	10	30	2	48	15	36	30	19	26	16	21	6	29	- 5	19
Winnemucca .....	9	31	12	13	9	30	12	1	21	10	30	2	48	15	36	30	19	26	16	21	6	29	- 5	19
EASTERN SECTION.																								
Cherry Creek .....	5	30	- 1	14*	7	6	17	1*	23	19	30	4	45	1*	38	31	25	26*	20	3*	- 5	28	-11	18
Elly .....	5	30	- 1	14*	7	6	17	1*	23	19	30	4	45	1*	38	31	25	26*	20	3*	- 5	28	-11	18
Hamilton .....	5	30	- 1	14*	7	6	17	1*	23	19	30	4	45	1*	38	31	25	26*	20	3*	- 5	28	-11	18
CENTRAL SECTION.																								
Austin .....	11	5*	9	13	10	7	21	8	22	3	25	3	45	6	31	30	19	26	11	22	3	27	- 8	18
Eureka .....	4	3	4	14	4	6*	7	1	19	10	25	3	45	6	31	30	19	26	11	22	3	27	- 8	18
Millett .....	- 5	7	5	1*	8	7	9	1	20	9	28	3	37	1	28	31	19	26	9	22*	- 3	26	-10	19
Potts .....	-11	8	-10	14	- 2	7	9	1	19	9	19	3	38	1	24	31	14	25	6	22	-13	27	-19	18
WESTERN SECTION.																								
Carson Dam .....	15	7	17	18	7*	18	1	28	15	38	22	53	14	38	31	25	26	24	23	10	29	- 1	19*	
Fallon .....	12	7*	16	13*	15	7*	18	1	25	9	35	3	51	23	36	31	26	26	15	22	6	28*	- 2	19*
Fernley .....	13	7	12	14	17	9	14	1	30	8*	35	2	57	6*	43	30	24	26	15	22	8	28*	-10	18
Gardnerville .....	7	31	8	2	15	7	14	4*	20	15	27	3	41	1*	32	30	22	26*	15	22	7	28*	-17	19
Leetville .....	12	7	16	15*	15	6	15	1	27	9*	37	3	51	16	36	31	24	26	15	22	5	29	.....	.....
Lewer's Ranch .....	14	31	12	13	9	7	17	1	22	9	25	3	44	14*	33	30	26	25*	21	21*	11	27	- 3	18
Reno .....	16	6	15	13	15	7	19	1	26	9	32	22	48	16	37	30	28	25	20	22	13	27	- 1	18
Soda Lake .....	16	7	19	18	15	6	23	1	28	16	36	3	54	14	49	19*	29	25	19	21	0	27*	-14	18
Wabuska .....	6	3*	8	13	12	28	11	1	21	9	28	3	45	23	31	31	20	27	10	22	0	27*	-14	18
SOUTHERN SECTION.																								
Columbia .....	11	30	10	14	2	7	19	2	25	9	28	3	54	1*	43	28*	29	26	19	21	11	26*	10	15
Geyser .....	0	31	- 5	19	0	7	10	11	12	17	22	18	32	1	18	17*	.....	.....	.....	.....	.....	.....	.....	.....
Jean .....	32	26	30	12	35	6	38	7	51	2	68	1	72	12*	70	9	52	25*	40	17*	26	28	18	15
Las Vegas .....	17	8	14	19	27	27	32	4	40	5*	35	1	50	12	50	27	39	29	29	19	14	30	12	20*
Logan .....	23	8	29	15	30	8	35	9	35	5	40	1	58	1*	56	28	44	27	33	24*	20	30	19	19
McAfee's Ranch .....	-15	29	- 5	14	4	7	5	2	12	16	18	1	32	16	19	30	13	26	3	22	-17	25	-17	20
Mina .....	17	28*	24	18	25	8	25	3	27	9*	31	1*	57	3*	52	24*	29	30	16	22	5	28	- 1	20
Palmetto .....	- 4	31	- 3	14	- 6	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Panama .....	14	31	11	13	15	7	18	1	34	9	42	2	49	13	59	14*	.....	.....	30	18	13	27	7	18
Tonopah .....	14	31	11	13	15	7	18	1	34	9	42	2	49	13	59	14*	.....	.....	30	18	13	27	7	18

\* Occurred on other dates also.



Monthly and Annual Precipitation for the Year 1908, with Departures from the Normal.

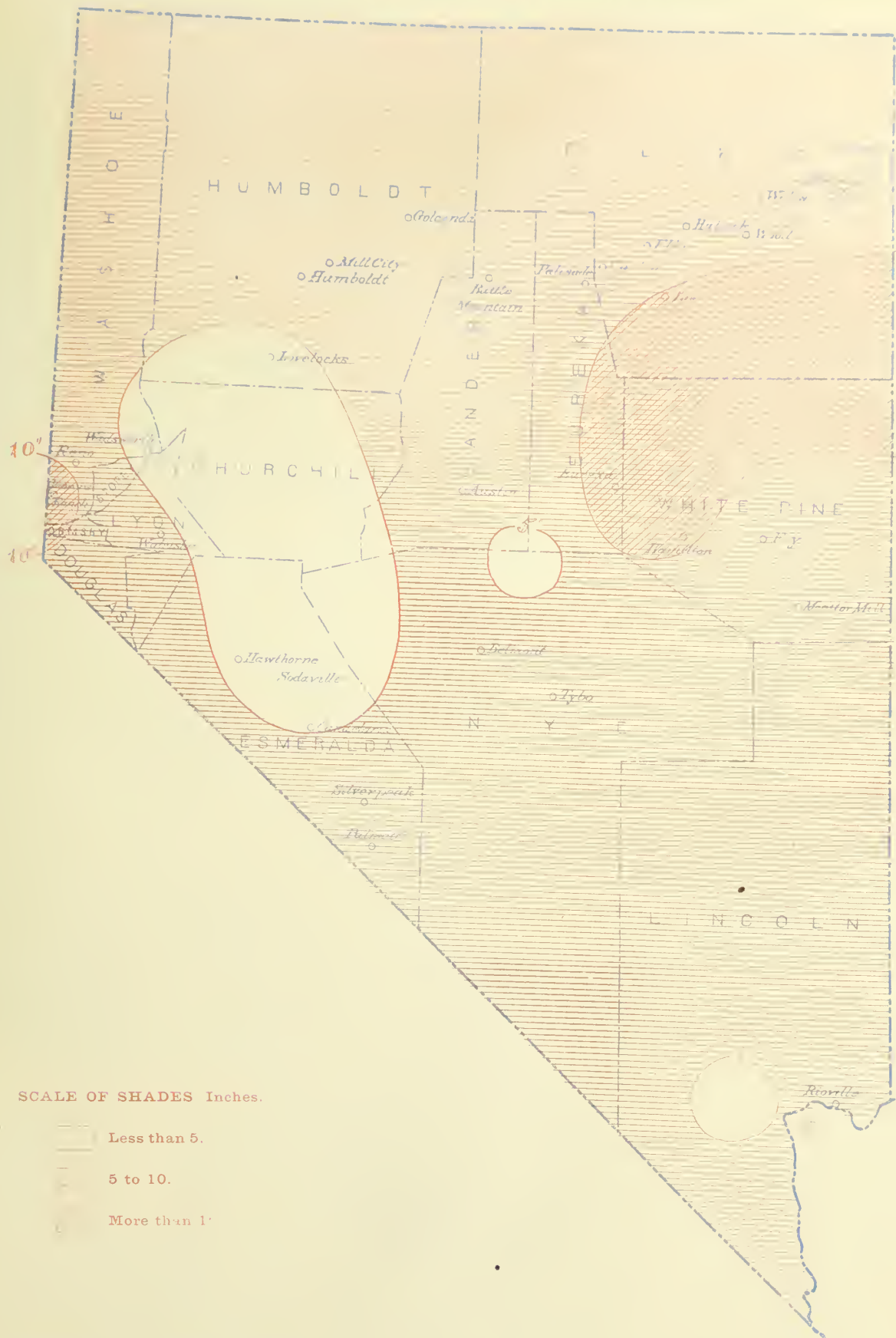


CHART II.—SHOWING LOCATION OF OBSERVING AND FORECAST DISTRIBUTING STATIONS.





CHART III. PRECIPITATION FOR THE YEAR 1908



SCALE OF SHADES Inches.

- Less than 5.
- 5 to 10.
- More than 10.



## COOPERATIVE STATIONS AND OBSERVERS.

Station	County	Observer	Station	County	Observer
Aura	Elko	E. J. Clarke	Las Vegas	Lincoln	Agent, Salt Lake Route
Anstin	Lander	F. H. Triplett	Leetville	Churchill	U. S. Reclamation Service
Battle Mountain	Lander	Agent, So. Pac. Co.	Lewers' Ranch	Washoe	Ross Lewers
Beowawe	Eureka	Agent, So. Pac. Co.	Logan	Lincoln	Charles Arney
Buckskin	Douglas	A. A. Croff	Lovelock	Humboldt	J. S. Case
Carlin	Elko	Agent, So. Pac. Co.	McAfee's Ranch	Esmeralda	W. T. Carter
Carson Dam	Churchill	U. S. Reclamation Service	Mill City	Humboldt	Agent, So. Pac. Co.
Cherry Creek	White Pine	J. H. Leishman	Millet	Nye	Fred J. Jones
Clover Valley	Elko	I. F. Wiseman	Mina	Esmeralda	Agent, So. Pac. Co.
Cobre	Elko	Agent, So. Pac. Co.	Palmetto	Esmeralda	J. M. McConnell
Columbia	Esmeralda	D. E. Hoffman	Panaca	Lincoln	F. E. Edwards
Elko	Elko	Agent, So. Pac. Co.	Paradise	Humboldt	J. D. Bradshaw
Ely	White Pine	G. C. Hunting	Potts	Nye	Miss Mamie Potts
Eureka	Eureka	Clay Simms	Quinn River Ranch	Humboldt	F. M. Payne
Fallon	Churchill	U. S. Reclamation Service	San Jacinto	Elko	Mose Jones
Fernley	Lyon	Mrs. A. J. Rankin	Soda Lake	Churchill	U. S. Reclamation Service
Gardnerville	Douglas	William Dangberg	Squaw Valley	Elko	Chas. D. Dorsey
Gileonda	Humboldt	Agent, So. Pac. Co.	Smith	Lyon	C. M. Carter
Halleck	Elko	Agent, So. Pac. Co.	Tecoma	Elko	Agent, So. Pac. Co.
Hamilton	White Pine	Geo. Allen	Wabuska	Lyon	J. G. Young
Humboldt	Humboldt	Agent, So. Pac. Co.	Wells	Elko	Agent, So. Pac. Co.
Jean	Lincoln	Agent, Salt Lake Route	Willow Point	Humboldt	R. B. Robertson

## SNOWFALL OBSERVERS.

Station	County	Observer	Station	County	Observer
Anstin	Lander	Mr. Miller	Lundy, Cal.	Mono	J. Lindsey
Beowawe	Eureka	J. M. Higgs	Lamoille	Elko	C. B. Derby
Berlin	Nye	Thos. K. Stevens	Marmol	Washoe	W. C. Murser
Bijou, Cal.	Eldorado	Chas. Young	Markleeville, Cal.	Alpine	J. G. Young
Boea, Cal.	Nevada	A. D. Tourtilotte	Mason Valley	Lyon	H. F. Schroeder
Bodie, Cal.	Mono	A. Taylor	McKinney's, Cal.	Placer	Fred J. Jones
Bridgeport, Cal.	Mono	H. B. Patterson	Millet	Nye	Sam Longabaugh
Bullion	Elko	W. H. Phillips	Ophir	Washoe	J. D. Bradshaw
Carlin	Elko	Agent, So. Pac. Co.	Paradise Valley	Humboldt	Chas. Thorpe
Charleston	Elko	C. E. Pearson	Pinegrove	Esmeralda	R. McClern
Clover Valley	Elko	I. F. Wiseman	Rebel Creek	Humboldt	M. E. Leavitt
Dayton	Lyon	Thos. P. Mack	Schurz	Esmeralda	C. M. Carter
Doer Park, Cal.	Placer	R. Ferguson	Smith	Lyon	F. L. Yparraquiere
Donner, Cal.	Nevada	W. O. Blinn	Sweetwater	Esmeralda	Robert Watson
Emerald Bay, Cal.	Eldorado	Sam Nichols	Tahoe, Cal.	Placer	Postmaster
Eureka	Eureka	Clay Simms	Topaz, Cal.	Mono	M. S. Reutherford
Fernley	Lyon	Mrs. A. J. Rankin	Truckee, Cal.	Nevada	W. I. Plumb
Fleish	Washoe	W. J. Farley	Tuscarora	Elko	Agent, So. Pac. Co.
Galena	Lander	W. G. Moore	Wells	Elko	Mrs. Mary Merrill
Glen Alpine Springs, Cal.	Eldorado	R. W. Porteous	Woodfords, Cal.	Alpine	Weather Bureau Office
Glenbrook	Douglas	A. C. McCleary	Winnemucca	Humboldt	Weather Bureau Office
Halleck	Elko	Agent, So. Pac. Co.			

## FORECAST DISTRIBUTORS AND DISPLAYMEN.

Station	By Mail	By Telephone *	Distributor	Station	By Mail	By Telephone *	Distributor
Beowawe	0	5	Utah, Nev. & Idaho Teleph. Co.	Paradise Valley	0	1	Postmaster
Deeth	0	38	Utah, Nev. & Idaho Teleph. Co.	Reno	65	1	Weather Bureau Office
Elko	0	195	Utah, Nev. & Idaho Teleph. Co.	Tonopah	2	0	Weather Bureau Office
Ely	0	10	G. C. Hunting	Wells	0	64	Utah, Nev. & Idaho Teleph. Co.
Eureka	0	20	Utah, Nev. & Idaho Teleph. Co.	Winnemucca	7	1	Weather Bureau Office

\* Number of telephones served.



U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR APRIL, 1909.

NEVADA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

IN COOPERATION WITH THE

NEVADA STATE WEATHER SERVICE

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

H. F. ALPS

SECTION DIRECTOR

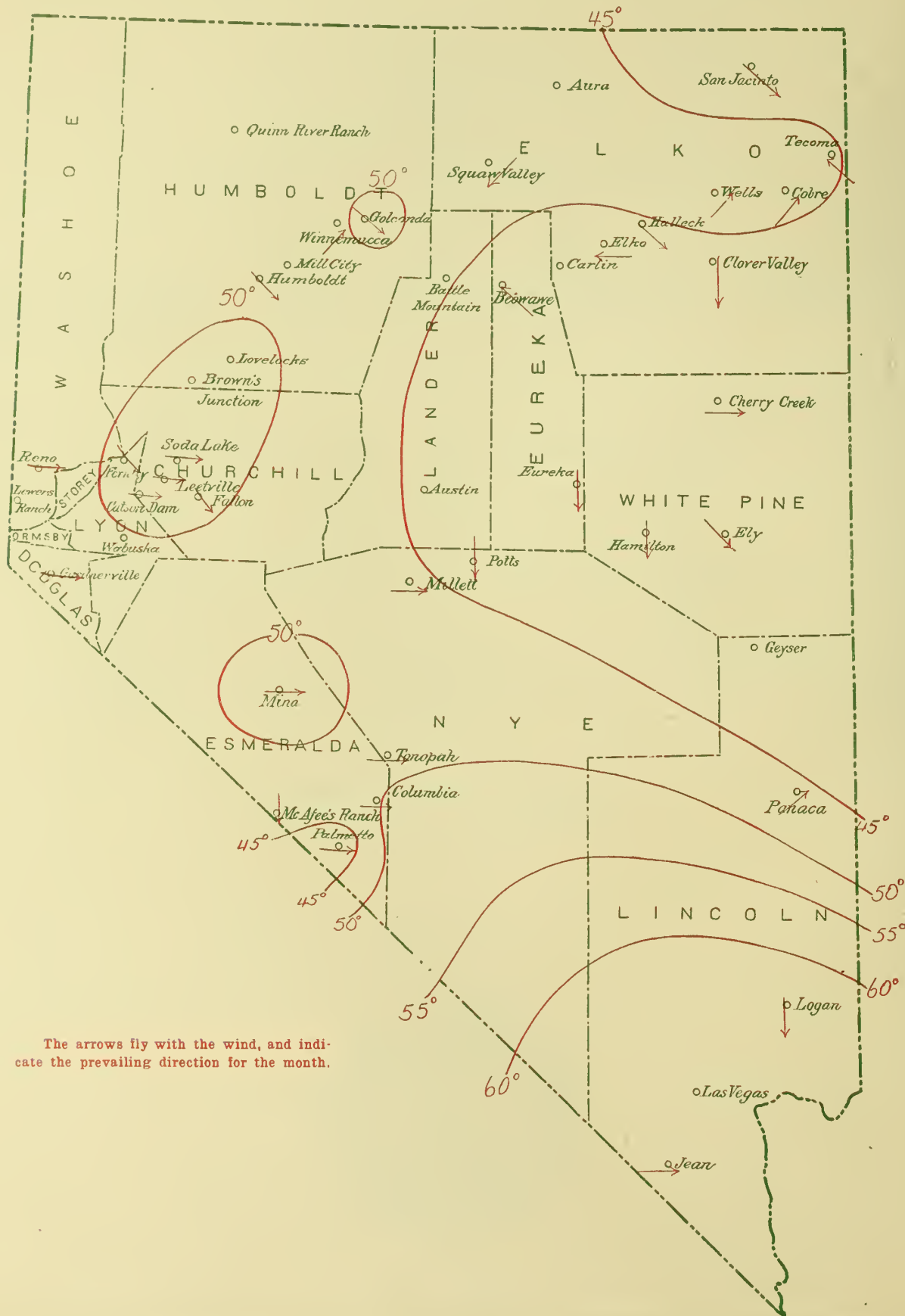


CARSON CITY, NEVADA:

May 31, 1909



MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTION FOR APRIL, 1909.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION.

H. F. ALPS, Section Director.

VOL. XXIV.

RENO, NEVADA, APRIL, 1909.

No. 4.

## GENERAL SUMMARY.

The temperature averaged about normal, with no extreme fluctuations during the month. The daily mean temperatures were generally above normal from the 1st to the 3d, 12th to the 18th, and 25th to the 29th. Moderately cool weather prevailed from the 4th to the 8th, and the 19th to the 22d. The period of coldest weather was from the 5th to the 8th, and the lowest temperatures at nearly all stations were recorded during this period. The maximum temperatures occurred at about one-third of the stations on the 16th, and at the others on widely scattered dates.

The most noteworthy feature of the weather conditions for the month was the great deficiency in precipitation which was general thruout the State. The average amount is the lowest on record, the lowest previous record being for April of last year, when the amount was nearly double that of this year. The greatest average precipitation ever recorded was 1.98 inches in April, 1900. The precipitation was fairly well distributed thruout the month, but the amounts were generally very light, the greatest being on the 19th. So far this year the precipitation for the State is nearly normal, the excessive amount in January making up for the great deficiencies of March and April.

## Temperature.

The mean temperature for the State was 47.8°, which is 0.7° higher than the normal for the month, and 2.3° lower than the mean for the corresponding month of 1908. The highest monthly mean temperature was 62.0°, at Logan, Lincoln County. The lowest was 40.0°, at Potts, Nye County. The highest temperature was 93°, at Logan on the 27th. The lowest was 10°, at Carlin, Elko County, on the 5th and 11th; at Millet, Nye County, on the 8th, and at Palmetto, Esmeralda County, on the 22d. The greatest daily range was 68°, at Carlin, on the 11th.

## Precipitation.

The average amount for the State was 0.18 inch, which is 0.56 inch less than the normal for the month, and 0.15 inch less than the average for the corresponding month of 1908. The greatest monthly amount was 0.89 inch at McAfee's Ranch, Esmeralda County, and the greatest amount recorded in twenty-four hours was 0.79 inch at the same station on the 18th. There was no precipitation at seven stations. The average number of days with 0.01 inch or more of precipitation was 1.

## Wind.

The prevailing direction was west. The average hourly velocity at Reno was 6.4 miles; at Tonopah it was 13.2 miles, and at Winnemucca it was 6.5 miles. The maximum velocity for a period of five minutes at Reno was at the rate of 29 miles per hour, west, on the 3d; at Tonopah it was 54 miles

per hour, northwest on the 29th, and at Winnemucca it was 33 miles per hour, west, on the 3d.

## Sunshine and Cloudiness.

The average number of clear days was 18, partly cloudy days 7, and cloudy days 5.

## COMPARATIVE STATE DATA FOR APRIL.

Year.	Temperature.			Average precipitation. in.	Number of days				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1890	49.0	96	8	0.72	5	18	9	4	W
1891	48.3	88	5	1.51	5	7	16	7	W
1892	41.3	84	6	0.62	1	8	16	6	W
1893	42.3	78	0	1.14	6	8	12	10	SW
1894	47.6	90	10	0.59	1	14	19	6	SW
1895	48.2	95	1	0.42	2	16	7	7	W
1896	41.7	89	0	1.00	5	9	7	14	SW
1897	47.3	91	9	0.37	2	20	10	0	SW
1898	51.1	103	12	0.71	2	17	7	6	W
1899	47.9	87	12	0.37	2	15	8	7	W
1900	43.8	82	10	1.98	7	6	7	17	W
1901	45.3	98	-2	0.59	3	15	6	9	SW
1902	45.8	81	14	0.75	3	11	9	10	SW
1903	45.2	101	1	0.47	2	17	6	7	SW
1904	45.4	97	10	0.66	3	15	7	8	SW
1905	47.0	85	10	0.84	4	14	7	9	SW
1906	47.6	90	9	1.30	5	13	7	10	W
1907	50.1	94	12	0.58	3	14	9	7	W
1908	50.1	91	4	0.33	2	18	7	5	W
1909	47.8	93	10	0.18	1	18	7	5	W
Entire period	47.1	103	-2	0.74	3	14	9	7	SW

## MISCELLANEOUS PHENOMENA.

*Hail*—Cherry Creek, 5th; McAfee's Ranch, 19th; Potts, 19th.

*Halos, Lunar*—Cherry Creek, 3d; Millett, 1st, 3d.

*Halos, Solar*—Eureka, 2d.

*High Winds*—Carson Dam, 3d, 6th, 9th, 10th, 11th, 27th, 28th; Cherry Creek, 6th, 13th, 17th, 18th, 20th, 23d, 27th, 28th, 29th; Cobre, 10th, 26th, 30th; Columbia, 4th, 5th, 10th, 11th, 19th, 21st, 28th; Elko, 10th, 11th, 12th, 17th, 18th, 19th, 20th, 23d, 27th, 28th; Eureka, 6th; Fallon, 3d, 10th, 27th, 28th; Gardnerville, 10th, 28th; Leetville, 3d, 10th, 23d, 27th, 28th; Palmetto, 5th, 6th, 10th, 11th, 21st, 29th; Potts, 2d, 3d, 5th, 6th, 9th, 10th, 11th, 12th, 18th, 23d, 27th, 28th, 29th; Reno, 3d, 27th; Smith, 27th; Tonopah, 29th; Winnemucca, 3d.

*Sleet*—Cherry Creek, 21st; Cobre, 27th.

*Sandstorms*—Jean, 28th; Panaca, 29th.

*Thunderstorms*—Hamilton, 19th; Humboldt, 28th; Logan, 18th, 19th; McAfee's Ranch, 19th; Millett, 17th, 18th, 19th; Potts, 17th, 19th; Smith, 17th.

## LATE REPORT.

Lewers' Ranch, March, 1909: Mean temperature, 39.4°; highest, 66°, on the 15th and 31st; lowest, 19°, on the 10th and 11th; total precipitation, 1.19 inches; greatest amount in twenty-four hours, 0.65 inch on the 1st; snowfall, 5.4 inches; rainy days, 3; clear, 5; partly cloudy, 23; cloudy, 3.

## CORRECTIONS.

January, 1909—Fletcher, precipitation, page 8, recorded 2.06 inches, should be 2.96 inches.

February, 1909—Cherry Creek, mean minimum temperature, page 14, recorded 18.7°, should be 18.5°; Columbia,



mean minimum temperature, page 14, recorded 25.5°, should be 25.4°; Gardnerville, mean maximum temperature, page 14, recorded 47.2°, should be 47.4°, and mean monthly temperature, page 13, recorded 35.7°, should be 35.8°; Mina, mean maximum temperature, page 14, recorded 51.0°, should be 51.2°, and mean monthly temperature, page 13, recorded 38.2°, should be 38.4°. Cobre, mean minimum temperature, page 14, recorded 12.5°, should be 12.3°; mean maximum temperature, same page, recorded 36.9°, should be 37.1°.

### SNOWFALL IN THE MOUNTAINS.

The snowfall during April was lighter than it has been in many years, but this deficiency is more than offset by the heavy precipitation of January. Taking it as a whole, the snowfall for the season has not been equaled in several years, and probably the water content has not been so great in the higher ranges of the Sierras since the season of 1905-06. Melting has largely been confined to the lower altitudes, the moderately warm weather being responsible for this diminution in the amount of snow at these elevations. Generally, below an elevation of 7,000 feet the snow diminishes rapidly; but above this elevation there has been no noticeable runoff.

The flow of water in the Truckee River will probably be about double what it was last year. The water-flow from the drainage areas of the Carson and Walker Rivers, also, will greatly exceed that of last year, altho the percentage of increase in these districts will be less than in the Truckee. Mountain ranges supplying the Humboldt and Reese Rivers are well stocked with snow near the summits. The amount of water from these basins will greatly exceed that of the previous season.

### CORRESPONDENTS' REMARKS.

#### Humboldt River Drainage.

CLOVER VALLEY—The snow has melted very little in the mountains, and being very hard and well packed, gives promise of a better season than has been experienced in this locality. I. F. WISEMAN.

HALLECK—The snowfall in the higher mountains was the heaviest in many years, and there will be an abundance of water for all purposes. J. E. BROWN.

QUINN RIVER CROSSING—It is believed that the water-flow from this locality will be double that of last year. F. M. PAYNE.

TUSCARORA—April was dry, cold, and windy. Snow lying in the high mountains melted very slowly, so that there is much more water stored there than usual. W. I. PLUMB.

WINNEMUCCA—Very little snow has fallen here during April, but as we have already had nearly twice the normal snowfall, and have had no hot, dry winds to evaporate it, it is very probable that the water-flow this season will be much above the average.

LOCAL OFFICE U. S. WEATHER BUREAU.

#### Truckee River Drainage.

BIJOU, CAL.—The snow in the mountains is very solid.

CHAS. YOUNG.

GLEN ALPINE, CAL.—There is much hard packed snow in the mountains. The average depth at Lake Lucille is eighty-four inches.

RUSSELL W. PORTEOUS.

GLENBROOK—The ground here is nearly bare, except in shady places. In the canyons and on the northern slopes, near the mountain summit, the snow is from five to six feet deep. C. C. HENNINGSEN.

HOBART MILLS, CAL.—The snow in the hills is very hard and is melting very slowly. Much more than the average amount is stored away in the high mountains. S. E. PATTERSON.

OPHIR—The snowfall this season is three times as great as that up to the corresponding date last year. In many places the drifts are from ten to thirty feet deep. SAM LONGABAUGH.

TAHOE, CAL.—The amount of snow in this locality is double that of last year. ROBERT WATSON.

TALLAC, CAL.—The water running now is twice what it was at this time last year. G. W. RUCKS.

MT. ROSE—The amount of snow this year is probably the greatest since the season of 1905-06. The extreme depths of snow on Mt. Rose exceed ten feet, and in some places the drifts are twenty feet. Above 9,000 feet elevation the snow on the level does not average more than five feet. Below this the snow depth and density diminishes very rapidly. PROF. J. E. CHURCH, JR.

#### Carson River Drainage.

DAYTON—The water-flow from this locality will be greater this season than last. THOS. P. MACK.

SUMMIT—The snow in the high mountains is double the amount of last year. C. O. SPOONER.

WOODFORDS, CAL.—The snow in the high, open country being very solid and of great depth, will not all melt this season. Thus plenty of water is assured, not only for this season, but for next season as well. GRANT P. MERRILL.

#### Walker River Drainage.

FALES' HOT SPRINGS, CAL.—There is a great deal more snow in the mountain ranges this year than last. The average depth at Sonora Pass is estimated to be fifteen feet. The water running now is double the amount at this time of last year. JOS. M. MAWER.

LUNDY, CAL.—The snow at high elevations is hard and icy. AL. TAYLOR.

SWEETWATER—The water-flow from this locality should be one-half again as large this season as last. F. L. YPARRAQUITRE.

WABUSKA—There will be fifty per cent more snow in the drainage area of the Walker River this year than last, and an abundance of water for irrigation is assured. J. G. YOUNG.

#### Reese River Drainage.

BERLIN—The estimated average depth of snow near the summit in the Shoshone Mountains is six inches, and in the Toiyabe Mountains three feet. There has been more wind this season than last, and the canyons are drifted full in consequence. The water-flow from this locality will be fifty per cent greater this year than last. C. M. HIRSTAND.

EUREKA—We have had very little snowfall here this month, but the snow is drifted deep in some places in the mountains. We shall have a better supply of water this year than last. CLAY SIMMS.

### TABLE OF SNOWFALL.

Station.	County.	Compared with average.	On ground April 30, 1909.	
			At station.	At or near summit of mountains.
			Inches.	Inches.
<i>Humboldt River Drainage:</i>				
Battle Mountain.....	Lander.....	More.....	0	.....
Beowawe.....	Eureka.....	More.....	0	.....
Bullion.....	Elko.....	More.....	0	.....
Carlin.....	Elko.....	Average.....	0	.....
Charleston.....	Elko.....	More.....	0	36
Clover Valley.....	Elko.....	More.....	0	.....
Halleck.....	Elko.....	Average.....	0	.....
Lamoille.....	Elko.....	Average.....	0	.....
Palisade.....	Eureka.....	Less.....	0	3
Paradise Valley.....	Humboldt.....	More.....	0	30
Rebel Creek.....	Humboldt.....	More.....	0	30
Tuscarora.....	Elko.....	More.....	0	36
Wells.....	Elko.....	More.....	0	24
Winnemucca.....	Humboldt.....	More.....	0	24-120
Willow Point.....	Humboldt.....	More.....	0	10-30
<i>Truckee River Drainage:</i>				
Bijou, Cal.....	Eldorado.....	More.....	0	72
Boca, Cal.....	Nevada.....	More.....	0	36
Brockway, Cal.....	Placer.....	More.....	0	36
Deer Park, Cal.....	Placer.....	More.....	48	96
Donner, Cal.....	Nevada.....	More.....	12	90
Emerald Bay, Cal.....	Eldorado.....	More.....	0	.....
Fernley.....	Lyon.....	More.....	0	.....
Fleish.....	Washoe.....	More.....	0	80
Floriston, Cal.....	Nevada.....	More.....	48	72
Glen Alpine, Cal.....	Eldorado.....	More.....	T	36-72
Glenbrook.....	Douglas.....	More.....	0	42
Hobart Mills, Cal.....	Nevada.....	More.....	0	.....
Marmol.....	Placer.....	More.....	0	84 96
McKinneys, Cal.....	Washoe.....	More.....	60	120-144
Ophir.....	Douglas.....	More.....	24	120
Spooner's Ranch.....	Placer.....	More.....	12	96
Tahoe, Cal.....	Eldorado.....	More.....	10	.....
Tallac, Cal.....	Placer.....	More.....	0	120
Talion, Cal.....	Nevada.....	More.....	0	.....
Truckee, Cal.....	Nevada.....	More.....	0	.....
<i>Carson River Drainage:</i>				
Carson City.....	Ormsby.....	More.....	0	36-72
Dayton.....	Lyon.....	More.....	0	T
Markleeville, Cal.....	Alpine.....	More.....	0	72
Saint's Rest.....	Douglas.....	More.....	24	36
Woodfords, Cal.....	Alpine.....	More.....	0	135
<i>Walker River Drainage:</i>				
Bodie, Cal.....	Mono.....	More.....	0-6	120
Bridgeport, Cal.....	Mono.....	More.....	0-13	180
Fales' Hot Springs, Cal.....	Mono.....	More.....	0-24	.....
Lundy, Cal.....	Mono.....	More.....	0	.....
Pinegrove.....	Esmeralda.....	More.....	0	.....
Schurz.....	Esmeralda.....	More.....	0	.....
Smith.....	Lyon.....	More.....	0	.....
Sweetwater.....	Esmeralda.....	More.....	0	.....
Topaz, Cal.....	Mono.....	More.....	0	.....
Wabuska.....	Lyon.....	More.....	0	60
<i>Reese River Drainage:</i>				
Austin.....	Lander.....	Average.....	0	.....
Berlin.....	Nye.....	More.....	0	6-36
Eureka.....	Eureka.....	Average.....	0	6-8
Galena.....	Lander.....	Average.....	0	.....
Millett.....	Nye.....	Less.....	0	24



## CLIMATOLOGICAL REPORT FOR APRIL, 1909.

Stations.	Counties.	Elevation (feet)	Length of record (years)	Temperature (degrees Fahrenheit).						Precipitation (inches)					Sky				Prevailing direction of wind	Observer.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.		
Northern Section.																				
Battle Mountain .....	Lander	4,843	39	.....	.....	.....	.....	.....	.....	.....	0.14	-0.55	0.10	1.0	2	19	7	4	W	Agent So. Pacific Co.
Beowawe .....	Eureka	1,905	39	41.6	-4.7	76	19	16	10	52	0.00	-0.56	0.00	0.0	0	21	1	8	SE	Agent So. Pacific Co.
Carlin .....	Elko	5,232	39	46.2	+2.5	84	9	10	5	68	0.00	-0.78	0.00	0.0	0	29	0	1	.....	Agent So. Pacific Co.
Clover Valley .....	Elko	6,000	10	44.2	.....	74	27	15	7	45	0.38	.....	0.27	0.0	3	11	9	10	N	I. F. Wiseman
Cobre .....	Elko	.....	.....	48.8	+3.6	80	19	27	6	44	0.02	-0.77	0.01	0.5	2	18	11	1	SW	Agent So. Pacific Co.
Elko .....	Elko	5,342	39	41.8	-2.9	70	16	15	22	48	0.02	-0.54	0.02	0.2	0	11	0	19	E	Agent So. Pacific Co.
Golconda .....	Humboldt	4,697	31	50.5	+2.5	76	17	23	21	44	0.00	-0.45	0.00	0.0	0	27	2	1	NW	Agent So. Pacific Co.
Halleck .....	Elko	5,631	17	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0.0	0	8	22	0	NW	Agent So. Pacific Co.
Humboldt .....	Humboldt	4,236	39	49.0	-0.8	75	18	22	7	44	T	-0.60	T	0.0	0	23	3	4	NW	Agent So. Pacific Co.
Lovelock .....	Humboldt	3,977	17	51.4	+0.6	79	12	.....	.....	50	0.00	-0.18	0.00	0.0	0	.....	.....	.....	.....	John S. Case
Quinn River Ranch 4 .....	Humboldt	4,850	8	46.1	.....	75	25	14	7	50	0.05	.....	0.05	0.0	1	19	7	4	NW	..... F. M. Payne
San Jacinto .....	Elko	5	5	42.4	.....	63	22	16	7	34	0.07	.....	0.07	0.0	1	.....	.....	.....	NW	..... Moses Jones
Tecoma .....	Elko	4,812	32	49.8	+2.7	72	16	26	6	28	T	-0.77	T	T	0	13	11	6	SE	Agent So. Pacific Co.
Wells .....	Elko	5,631	38	46.0	+1.0	68	17	21	22	40	0.52	+0.07	0.51	0	2	16	3	11	SW	Agent So. Pacific Co.
Winnemucca .....	Humboldt	4,432	31	45.8	+1.3	71	25	19	7	49	0.40	-0.48	0.19	0.4	4	21	6	3	SW	U. S. Weather Bureau
Eastern Section.		Means	.....	46.7	.....	.....	.....	.....	.....	.....	0.11	.....	.....	2.0	1	18	6	6	NW	.....
Cherry Creek .....	White Pine	6,450	1	42.0	.....	70	16	16	7	38	0.27	.....	0.35	5.1	3	9	15	6	W	..... J. H. Leishman
Ely .....	White Pine	6,421	19	42.5	+0.3	72	16	12	8	43	0.25	-1.35	0.25	T	1	24	4	2	N	..... G. C. Hunting
Hamilton .....	White Pine	7,977	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	17	3	10	N	..... Geo. Allen
Central Section.		Means	.....	42.2	.....	.....	.....	.....	.....	.....	0.41	.....	.....	2.6	2	17	7	6	N	.....
Austin .....	Lander	6,594	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..... F. H. Triplett
Eureka .....	Eureka	6,500	7	42.6	.....	71	16	14	7	43	0.50	.....	0.30	5.2	5	14	5	11	N	..... Clay Simms
Millett .....	Nye	2	2	45.8	.....	78	9	10	8	65	0.09	.....	0.09	0.0	1	16	12	2	W	..... Fred J. Jones
Potts .....	Nye	6,990	17	40.0	.....	70	16	12	7	44	0.02	.....	0.02	1.0	1	11	4	15	N	..... Miss Mamie Potts
Western Section.		Means	.....	42.8	.....	.....	.....	.....	.....	.....	0.20	.....	.....	2.1	2	14	7	9	N	.....
Carson Dam .....	Churchill	4,032	3	51.3	.....	77	26	25	7	41	0.00	.....	0.00	0.0	0	20	9	1	W	..... J. M. Heizer
Fallon .....	Churchill	3,965	5	50.3	.....	77	26	21	8	48	0.19	.....	0.11	0.0	2	20	10	0	NW	..... U. S. Reclamation Serv.
Fernley .....	Lyon	4,200	2	50.7	+0.3	78	26	21	7	48	T	-0.32	T	0.0	0	22	4	4	NW	..... U. S. Reclamation Serv.
Gardnerville .....	Douglas	4,830	10	48.2	.....	78	26	18	7	50	0.01	.....	0.01	0.0	1	16	9	5	W	..... William Dangberg
Leetville B .....	Churchill	4,020	3	51.6	.....	76	16	22	8	49	0.15	.....	0.15	0.0	1	24	6	0	W	..... U. S. Reclamation Serv.
Lewers' Ranch .....	Washoe	5,500	22	48.8	+2.8	76	15	24	5	44	0.44	-1.16	0.44	T	1	15	14	1	.....	..... Ross Lewers
Reno .....	Washoe	4,532	39	48.8	+1.5	75	25	25	11	42	0.18	-0.43	0.18	0.0	1	18	10	2	W	..... Section Center
Soda Lake .....	Churchill	4,005	3	52.5	.....	88	16	24	7	59	T	.....	T	0.0	0	16	14	0	W	..... U. S. Reclamation Serv.
Wabuska .....	Lyon	4,347	7	49.4	.....	82	16	15	6	60	T	.....	T	0.0	0	22	8	0	NW	..... J. G. Young
Southern Section.		Means	.....	50.2	.....	.....	.....	.....	.....	.....	0.11	.....	.....	0.0	1	19	9	9	W	.....
Columbia B .....	Esmeralda	5,750	3	50.4	.....	75	16	21	7	39	0.03	.....	0.03	0.0	1	25	5	0	W	..... D. E. Hoffman
Geyser .....	Lincoln	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..... Mrs. J. F. Wambolt
Jean .....	Lincoln	2,074	2	.....	.....	92	16	.....	.....	.....	0.30	.....	0.30	0.0	1	25	0	5	W	..... Agent Salt Lake Route
Las Vegas .....	Lincoln	2,033	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0	.....	.....	.....	.....	.....	..... Agent Salt Lake Route
Logan .....	Lincoln	1,700	3	62.0	.....	93	27	34	6	50	0.16	.....	0.13	0.0	2	18	10	2	N	..... Chas. Arney
McAfee's Ranch .....	Esmeralda	4,835	6	.....	.....	.....	.....	.....	.....	.....	0.89	.....	0.79	0.0	2	.....	.....	.....	N	..... G. A. McAfee
Mina .....	Esmeralda	4,600	3	52.8	.....	81	15	18	5	50	0.00	.....	0.00	0.0	0	17	3	10	W	..... Agent So. Pacific Co.
Palmetto .....	Esmeralda	6,780	20	43.0	-0.6	74	26	10	22	47	0.20	-0.96	0.15	2.0	2	19	5	6	W	..... Isaac McConnell
Panaca .....	Lincoln	4,750	1	.....	.....	72	27	.....	.....	.....	0.74	.....	0.70	0.0	2	11	13	6	SW	..... F. E. Edwards
Tonopah .....	Nye	6,090	3	47.4	.....	70	16	23	5	29	0.06	.....	0.06	0.0	2	14	15	1	W	..... U. S. Weather Bureau
Means		.....	.....	51.1	.....	.....	.....	.....	.....	.....	0.30	.....	.....	0.2	2	19	7	4	W	.....
State Means and Extremes.		.....	.....	47.8	+0.7	93	27	10	5	.....	0.18	-0.56	0.79	4.0	1	18	7	5	W	.....

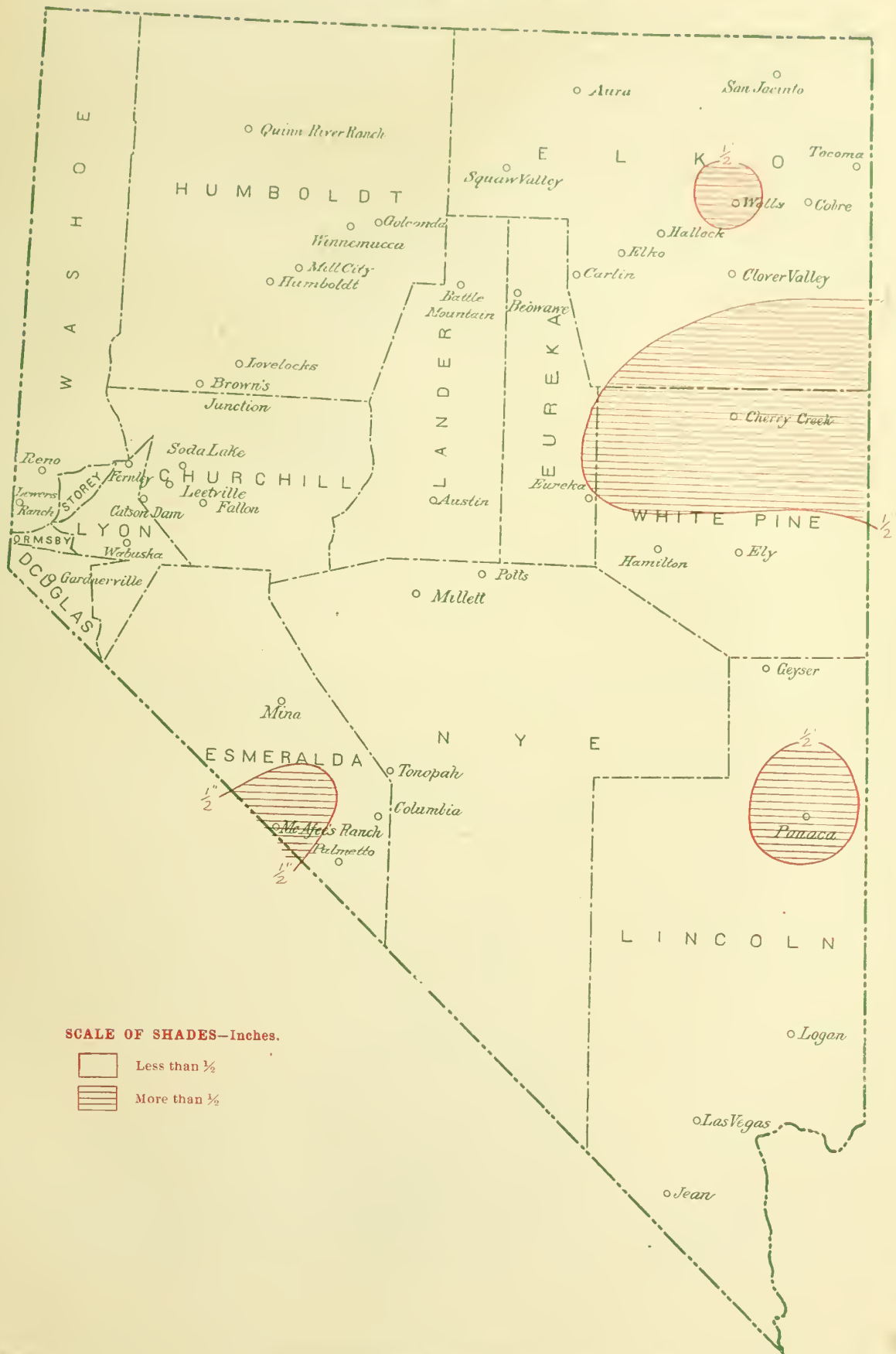
REFERENCES: A small letter placed after the name of a station indicates the number of days missing from the record; for instance, "N" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means. 4, not included in sums and means.







# TOTAL PRECIPITATION FOR APRIL, 1909.






## DAILY PRECIPITATION FOR APRIL, 1909.

Stations.	Day of Month.																															Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Section.																																
Aura					0.10														0.04												0.14	
Battle Mountain																															0.00	
Beowawe																															0.00	
Carlin																															0.38	
Clover Valley				0.01		T	0.07			T											0.02							0.27	0.04			0.00
Cobre						T																									0.02	
Elko																															0.00	
Golconda																															T	
Halleck																															0.00	
Humboldt																															0.20	
Lovelock																															0.05	
Paradise Valley																															0.07	
Quinn River Ranch																															T	
San Jacinto				T		T	T																								T	
Tecona																															0.52	
Wells					0.01																										0.01	
Willow Point					T																										0.01	
Winnemucca					0.01					T									0.19		0.02										0.40	
Eastern Section.																																
Cherry Creek					0.04					T										0.35		0.18		*							0.57	
Ely																				0.25											0.25	
Hamilton																																
Central Section.																																
Austin					0.05	0.04				0.02	T									0.30		0.09									0.50	
Eureka																															0.09	
Millet																			0.09												0.02	
Potts					T					T																						
Western Section.																																
Bucksin																															T	
Carson Dam																															0.00	
Douglas Ranch																															0.19	
Fallon																			0.11												T	
Fernley																				T											0.08	
Gardnerville																					0.01										0.01	
Glenbrook																				0.25											0.15	
Leetville																				0.15											0.44	
Lewers' Ranch																				0.44											0.18	
Reno																					0.18										T	
Smith																															T	
Soda Lake																															0.45	
Sweetwater					T	0.20														0.25												T
Wabaska																															0.70	
Yerington								T																								0.03
Southern Section.																																
Columbia																				0.03											0.30	
Fletcher																															0.16	
Geyser																															0.89	
Jean					0.30																										0.00	
Las Vegas																															0.20	
Logan																			0.13												0.06	
McAfee's Ranch																			0.79												0.06	
Mina					0.03															0.10											0.06	
Palmetto																															0.06	
Panaca																															0.06	
Tonopah																															0.06	

T indicates trace. \* Amount included in that of the following day.

CARSON CITY, NEVADA:

STATE PRINTING OFFICE, -  - J. G. MCCARTHY, SUPT.

1909



U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR JUNE, 1909.

NEVADA SECTION  
OF THE  
CLIMATOLOGICAL SERVICE  
OF THE  
WEATHER BUREAU

IN COOPERATION WITH THE  
NEVADA STATE WEATHER SERVICE

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF  
WILLIS L. MOORE  
CHIEF U. S. WEATHER BUREAU

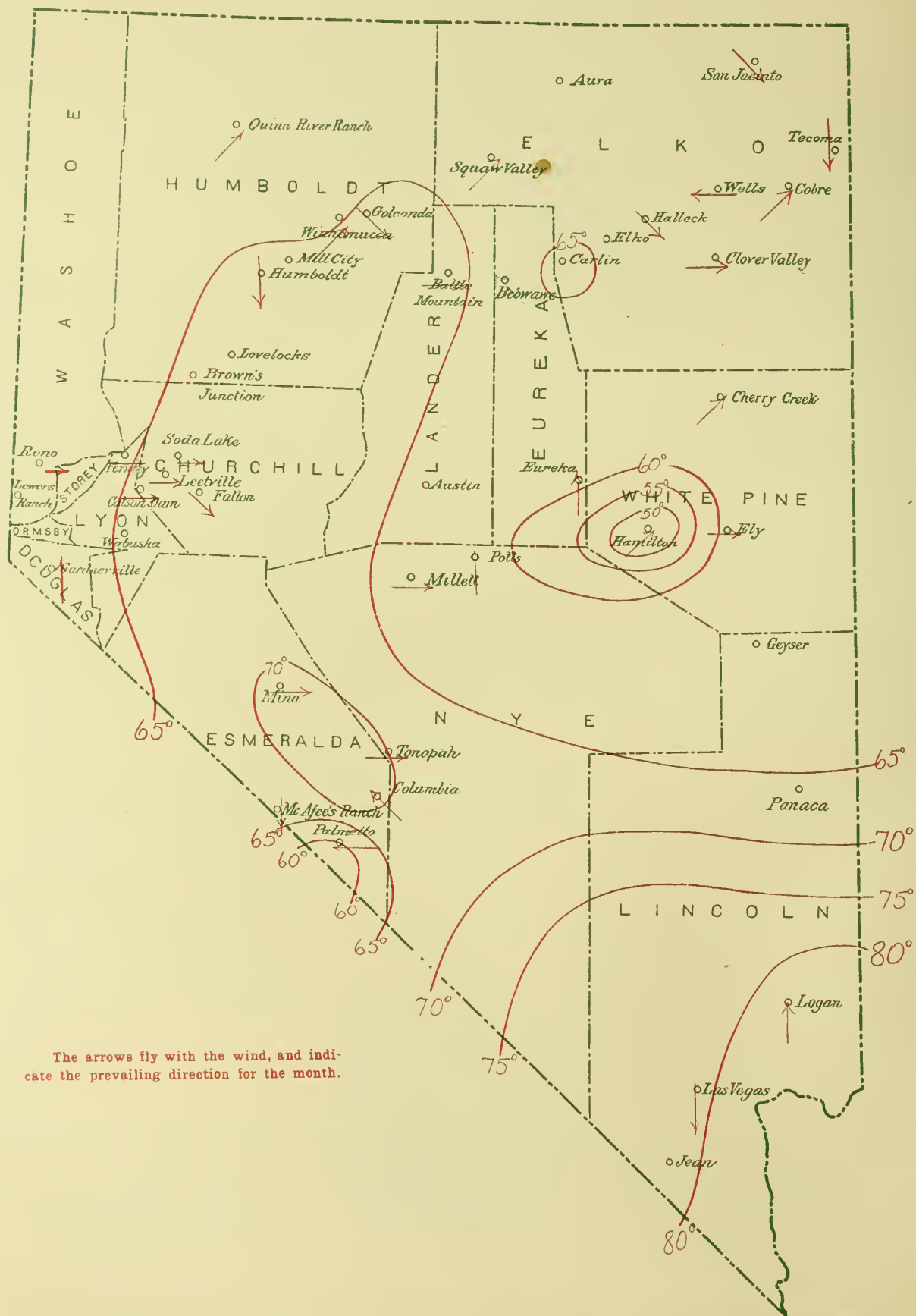
BY  
H. F. ALPS  
SECTION DIRECTOR



CARSON CITY, NEVADA:  
August 13, 1909



# MEAN MONTHLY ISOTHERMS AND PREVAILING WIND DIRECTION FOR JUNE, 1909.



The arrows fly with the wind, and indicate the prevailing direction for the month.



U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

NEVADA SECTION,

H. F. ALPS, Section Director.

VOL. XXIV.

RENO, NEVADA, JUNE, 1909.

No. 6.

## NEW FORM OF PUBLICATION.

With this issue the publication of the monthly climatological report of this section ends. The data from this section will in the future be printed in the Weather Review issued monthly at the Central Office at Washington, D. C., in similar form, except that the number of stations showing the daily temperature records will be somewhat limited.

This plan has been adopted as a means of placing before those interested in such matters the complete climatic data for certain well-defined areas, which, according to the present manner of publication, can only be found in the reports from several different sections.

The country has been divided into twelve great divisions, outlined chiefly according to drainage areas, and the entire data for each division will be brought together and published in convenient form for use of those interested in climatic data.

The twelve separates containing data for the entire country will finally be brought together to form a single publication monthly.

All persons now receiving the monthly summaries will be furnished, if desired, with separates of the division in which they are located. The complete Review, being a comprehensive presentation of the principal features of the weather of each month, will be furnished to cooperating meteorological bureaus, societies, libraries, etc., upon direct application to the Chief U. S. Weather Bureau, Washington, D. C.

## GENERAL SUMMARY.

The mean temperature for the month was higher than is usual for June. The first part was very warm, with high day temperatures, becoming cooler about the 4th, and from the 7th until the 10th the average temperature was below normal. Moderately warm weather then prevailed until about the 17th, when a cool period began and continued for four days. The last decade was warm. The days were moderately cool on the 26th, 27th, and 28th, but the mean temperatures were considerably above normal. The highest temperatures were recorded on the 2d or 3d in the western and central sections, on the 24th or 30th in the southern section, and on the 30th in the northern and eastern sections. The lowest temperatures were recorded at nearly all stations on the 8th, 9th, or 10th.

The average precipitation was two-thirds of the normal amount. It occurred mostly on the 18th and 19th, when threatening and stormy weather was general throughout the State. It was very unevenly distributed, three stations receiving more than an inch, while at nine stations there was no precipitation, and only a trace at four stations. In the western and northern portions the drought was broken in localities where heavy showers fell, but it continued very dry elsewhere. However, there was an ample supply of water in the streams.

## Temperature.

The mean temperature for the State was 65.5°, which is 2.5° higher than the normal for the month, and 1.7° higher than the mean for the corresponding month of 1908. The highest monthly mean temperature was 76.2°, at Las Vegas, Lincoln County; the lowest was 46.8°, at Hamilton, White Pine County. The highest temperature was 112°, at Logan, Lincoln County, on the 30th, and the lowest was 24°, at Cobre, Elko County, on the 9th. The greatest daily range was 66°, at Las Vegas, on the 12th.

## Precipitation.

The average amount for the State was 0.28 inch, which is 0.14 inch less than the normal for the month, and 0.19 inch less than the average for the corresponding month of 1908. The greatest monthly amount was 1.95 inches, at Lovelock, Humboldt County, while there was none at all at nine stations. The greatest amount recorded in twenty-four hours was 1.80 inches, at Mina, on the 18th. The average number of days with 0.01 inch or more of precipitation was 4.

## Wind.

The prevailing direction was west. The average hourly velocity at Reno was 6.3 miles; at Tonopah it was 9.2 miles, and at Winnemucca it was 5.9 miles. The maximum velocity for a period of five minutes at Reno was at the rate of 24 miles per hour, west, on the 13th; at Tonopah it was 42 miles per hour, southeast, on the 18th, and at Winnemucca it was 41 miles per hour, northwest, on the 7th.

## Sunshine and Cloudiness.

The average number of clear days was 19, partly cloudy days 7, and cloudy days 4.

## COMPARATIVE STATE DATA FOR JUNE.

Year.	Temperature.			Average precipitation.	Number of days.				Prevailing wind.
	Mean.	Highest.	Lowest.		With precipitation.	Clear.	Partly cloudy.	Cloudy.	
1890.....	61.5	109	24	0.05	1	22	7	1	s
1891.....	59.8	97	8	1.18	5	16	10	4	s
1892.....	62.8	110	22	1.06	4	17	8	5	w
1893.....	63.8	100	18	0.64	0	28	2	0	w
1894.....	57.8	92	20	1.12	5	12	10	8	sw
1895.....	62.9	109	14	0.13	1	20	6	4	sw
1896.....	68.7	117	25	0.22	2	19	6	5	sw
1897.....	62.8	112	20	0.37	3	16	8	6	sw
1898.....	65.0	104	20	0.19	1	20	7	3	w
1899.....	63.7	103	21	0.60	2	22	4	4	w
1900.....	67.7	111	28	0.32	2	19	5	6	w
1901.....	59.1	99	21	0.15	1	19	8	3	w
1902.....	66.3	116	20	0.04	0	24	3	3	sw
1903.....	66.5	113	28	0.45	3	17	8	5	sw
1904.....	63.6	106	11	0.04	1	21	5	4	sw
1905.....	61.9	101	24	0.11	1	21	5	4	sw
1906.....	69.2	115	20	0.59	2	16	9	5	s
1907.....	56.9	111	18	1.09	5	13	9	8	w
1908.....	60.8	116	18	0.47	3	17	9	4	w
1909.....	65.5	112	24	0.28	1	19	7	4	w
Entire period.....	63.2	117	8	0.42	2	19	7	4	w

## MISCELLANEOUS PHENOMENA.

*High Winds*—Battle Mountain, 7th; Carson Dam, 7th, 8th; Cherry Creek, 6th, 18th, 19th, 22d, 24th, 25th, 26th, 27th, 28th; Clover Valley, 3d, 17th, 27th, 30th; Columbia, 17th; Elko, 8th, 13th, 17th, 18th; Ely, 17th, 18th; Eureka, 17th, 18th; Leetville, 3d, 8th, 15th, 27th, 29th; Logan, 25th, 26th, 27th; Palmetto, 6th, 17th; Potts, 4th, 12th, 15th, 16th, 17th, 18th, 25th, 27th, 28th, 29th; San Jacinto, 18th; Tonopah, 18th; Wabuska, 16th, 28th, 29th; Winnemucca, 7th.

*Killing Frosts*—Battle Mountain, 8th, 9th, 10th, 11th; Carlin, 9th, 10th, 11th, 12th; Clover Valley, 9th; Cobre, 7th, 9th, 11th; Elko, 9th; Ely, 10th; Eureka, 9th; Fernley, 16th, 17th, 18th; Fletcher, 19th; Hamilton, 6th, 7th, 8th, 11th, 19th; Palmetto, 7th, 8th, 19th; Potts, 9th, 10th,



11th, 19th; Quinn River Ranch, 10th; San Jacinto, 8th; Tecoma, 8th, 10th, 11th.

*Sandstorms*—Battle Mountain, 7th; Leetville, 7th.

*Thunderstorms*—Cherry Creek, 5th, 6th, 7th, 13th; Clover Valley, 13th; Columbia, 12th; Eureka, 13th; Gardnerville, 6th; Hamilton, 6th; McAfee's Ranch, 6th, 13th; Palmetto, 7th; Potts, 6th, 7th, 13th; Reno, 10th; San Jacinto, 13th, 19th.

### INDEX TO SPECIAL ARTICLES.

Following is an index to special articles published in the Monthly and Annual Reports of the Nevada Section, Climatological Service, from the time of the first report in September, 1897, to July, 1909:

Subject.	Report.
Agriculture in Nevada	November, 1905.
Austin, Nevada, Climatology of	October, 1907.
Battle Mountain, Nevada, Climatology of	March, 1907.
Beowawe, Nevada, Climatology of	April, 1907.
Carlin, Nevada, Climatology of	August, 1908.
Carson City, Nevada, Climatology of	October, 1902.
Cyclones and Anticyclones	October, 1906.
Elko, Nevada, Climatology of	June, 1907.
Ely, Nevada, Climatology of	February, 1907.
Fallon, Nevada, Climatology of	June, 1909.
Fencelon, Nevada, Climatology of	November, 1908.
Golconda, Nevada, Climatology of	May, 1908.
Halleck, Nevada, Climatology of	June, 1908.
Hawthorne, Nevada, Climatology of	April, 1904.
Hawthorne, Nevada, Severe Storm at	August, 1904.
Humboldt, Nevada, Climatology of	May, 1907.
Lewers' Ranch, Nevada, Climatology of	November, 1906.
Lincoln County, Nevada, Climate of	November, 1898.
Lovelock, Nevada, Climatology of	August, 1907.
Mesquite, Nevada, Severe Storm at	June, 1898.
Mill City, Nevada, Climatology of	April, 1908.
Mount Rose, Nevada, Notes on	September, 1906.
Mount Rose, Nevada, Severe Storm at	November, 1905.
Palisade, Nevada, Climatology of	July, 1907.
Palmetto, Nevada, Climatology of	November, 1904.
Potts, Nevada, Climatology of	November, 1907.
Rainfall and Grazing	June, 1901.
Rainfall in Nevada	March, 1899.
Reno, Nevada, Climatology of	October, 1904.
Report of Chief of Weather Bureau, 1905, Extract from	February, 1906.
Seismograph Record of San Francisco Earthquake	April, 1906.
Sugar-Beet Culture	January, 1898.
Tecoma, Nevada, Climatology of	July, 1908.
Wadsworth, Nevada, Climatology of	October, 1908.
Water Resources of Nevada	September, 1907.
Weather Forecasts	September, 1904.
Wells, Nevada, Climatology of	September, 1908.
Winnemucca, Nevada, Climatology of	November, 1902.

### CLIMATOLOGY OF FALLON, NEVADA.

From the year 1891 to 1899 the values given are for St. Clair, about four miles southwest of Fallon.

#### Mean Temperatures.

Year	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1891											41.1	30.2	
1892	24.9	35.3	46.2	48.6	58.7	66.7	72.6	72.6	63.8	48.9	41.0	31.7	50.9
1893	35.6	32.8	41.6	46.4	55.2	64.8	71.6	71.4	58.4	49.2	39.0	34.8	50.1
1894	33.9	29.2	40.6	50.2	57.2	60.0	74.3	75.6	61.4	51.4	43.0	30.5	50.5
1895	28.6	31.2	40.7	50.8	59.6	64.3	70.3	69.3	58.2	52.8	37.0	29.8	49.4
1896	36.8	37.4	42.0	43.2	53.0	69.8	72.7	69.1	59.7	52.0	38.6	35.9	50.8
1897	31.8	31.9	36.0						60.6	47.8	41.6	30.4	
1898	21.0	37.6	37.2	54.1	55.2	66.0	72.9	73.8	62.6	47.6	36.6	25.8	49.2
1899	33.6	35.1	41.1	49.9	51.1	64.6							
1904	26.9	38.2	43.8	49.4	58.4	66.0	73.7			51.3			
1906	31.7	40.7	41.6	50.5	56.6	63.4	78.2	74.6	62.8	52.3	37.8	35.9	52.2
1907	30.7	45.4	42.4	51.8	56.3	62.0	72.0	69.2	60.1	55.8 <sup>2</sup>	39.8	37.7	52.2
1908	34.8	38.6	42.6	52.6	51.6	62.8	76.4	72.2	61.5	48.3	40.7	28.8	50.9
Means	30.8	36.1	41.3	50.0	55.7	64.6	73.5	72.0	60.9	50.7	39.7	32.0	50.6

<sup>1</sup>Interpolated from Wadsworth record.

<sup>2</sup>Interpolated from Leetville record.  
Extreme values in *italic* type.

### Precipitation.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1891											T	1.54	
1892	0.47	0.66	1.09	0.26	0.35	0.73	0.00	0.00	0.00	0.22	0.42	0.85	5.05
1893	0.65	0.90	1.88	0.52	0.21	0.00	0.27	0.00	0.10	0.00	0.04	0.08	4.65
1894	0.00	2.84	0.06	0.22	0.00	0.00	0.00	0.00	0.10	0.00	0.00	1.19	4.50
1895	1.06	0.94	0.06	0.10	1.08	0.05	0.00	T	0.05	0.52	0.21	0.20	4.27
1896	1.04	0.00	0.49	0.06	1.68	0.03	0.52	0.18	0.29	0.24	0.37	0.00	4.90
1897	0.97	1.56	0.17						0.05	1.95	0.05	0.81	
1898	0.49	0.05	0.25	0.08	2.73	0.00	0.00	0.00	0.35	0.08	0.29	0.21	4.53
1899	0.30	0.05	0.36	0.35	0.36	0.21							
1904	T	1.03	T	T	0.22	0.00	0.10			0.55			
1906				0.76	0.72	0.57	0.01	T	0.29	T	0.44	1.56	
1907	0.39	0.30	1.40	1.06	0.39	0.66	T	0.38	0.12	0.41	0.21	0.48	5.27
1908	0.49	0.48	0.02	0.28	0.92	0.05	0.15	0.02	0.62	0.17	T	0.07	3.80
Means	0.54	0.80	0.53	0.34	0.79	0.21	0.10	0.06	0.20	0.38	0.18	0.64	4.77

### Rainy Days.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1891											1	7	
1892	4	5	4	1	4	4	0	0	0	3	3	5	33
1893	5	4	5	8	4	0	3	0	1	0	2	3	35
1894	3	3	1	1	0	0	0	0	1	0	0	7	16
1895	6	5	1	2	5	1	0	0	0	3	4	3	30
1896	7	0	7	1	6	1	6	3	4	1	2	0	38
1897	6	8	4						1	10	1	3	
1898	6	1	3	1	9	0	0	0	1	1	3	2	27
1899		1	6	3	5	3							
1904	0	4	0	0	1	0	1		3				
1906				6	9	2	1	0	4	0	4	6	
1907	4	2	5	3	3	7	0	4	1	3	3	6	41
1908	5	3	1	3	3	2	2	1	5	2	0	2	29
Means	5	3	3	3	4	2	1	1	2	1	3	4	32

### Snowfall.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1893	1.5	6.5	16.5	2.5	0	0	0	0	T	0	0	0.2	27.2
1894	0.9	8.5	0	0	0	0	0	0	0	0	0	5.6	15.0
1895	8.2	8.8	0.5	0	T	0	0	0	0	0	0.5	1.3	19.3
1896	1.2	0	2.2	0	1.2	0	0	0	0	0	0	0	4.6
1897	7.0	12.0	1.5									0.5	
1898	8.7	0	4.0	0	0	0	0	0	0	0			
1899	3.0	1.0	1.0	2.0	2.0	0	0						
1904	T		0	0	0	0	0			0			
1906				0	0	0	0	0	0	T	5.5	5.4	
1907	5.2	T	2.5	0	0	0	0	0	0	0	0	0.6	8.3
1908	2.0	T	0.3	0	2.5	0	0	0	0	T	0	0.5	5.3
Means	3.8	4.1	2.8	0.4	0.6	0.0	0.0	0.0	0.0	0.0	0.8	2.1	14.6

### Temperature Extremes, 1901 to 1908, Excepting 1900-1903 and 1905.

Month.	Maximum.	Year.	Day.	Minimum.	Year.	Day.
January	64	1907	4	-5	1894	6
February	72	1907	10	-7	1899	6
March	78	1908	14	9	1898	22
April	89	1908	3	14	1893	
May	90	1896		24	1899	2
June	94	1892		33	1894	
July	101	1906	11	42	1895	
August	103	1908	8	36	1908	31
September	95	1907	10	26	1908	26
October	88	1906	2	15	1908	22
November	81	1906	14	-1	1906	29
December	72	1907	24	-3	1891	

<sup>1</sup>Occurred on other dates also.

<sup>2</sup>Occurred in other years also.



## CLIMATOLOGICAL REPORT FOR JUNE, 1909.

Stations	Counties	Temperature (degrees Fahrenheit)										Precipitation (inches)				Sky				Observers
		Elevation (feet)	Length of record (years)	Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (in melted)	Number rainy days	Number clear days	Number partly cloudy days	Number cloudy days	Prevailing direction of wind	
Northern Section.																				
Battle Mountain	Lander	4,843	39	68.3	+1.5	102	2	30	9	66	T	-0.47	T	0.0	0	22	7	1	W	Agent So. Pacific Co.
Beowawe I	Eureka	4,905	39	61.2	-6.8	98	2	25	16	61	0.00	-0.42	0.00	0.0	0	27	0	3	SE	Agent So. Pacific Co.
Carlin	Elko	5,232	39	66.3	+3.6	108	29	28	9	65	0.20	-0.33	0.20	0.0	1	26	0	4	W	Agent So. Pacific Co.
Clover Valley	Elko	6,000	10	62.8	.....	94	30	31	9	45	0.18	.....	0.06	0.0	3	12	14	4	W	I. F. Wiseman
Cobre	Elko	.....	.....	61.6	+1.9	92	28	24	9	54	0.12	-0.25	0.11	0.0	2	20	8	2	SW	Agent So. Pacific Co.
Dutton	Elko	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0.0	0	.....	.....	.....	SW	Golconda Cattle Co.
Elko 2	Elko	5,342	39	63.3	+0.2	96	30	32	9	52	0.38	-0.13	0.30	0.0	2	11	10	9	NE	Agent So. Pacific Co.
Golconda	Humboldt	4,697	31	68.5	+1.2	98	30	33	8	48	0.10	-0.32	0.10	0.0	1	21	7	2	NW	Agent So. Pacific Co.
Halleck	Elko	5,631	17	.....	.....	98	27	.....	.....	.....	0.10	-0.52	0.10	0.0	1	20	8	2	NW	Agent So. Pacific Co.
Humboldt	Humboldt	4,236	39	68.2	+2.4	98	29	45	5	39	0.00	-0.33	0.00	0.0	0	23	5	2	N	Agent So. Pacific Co.
Lovelock B	Humboldt	3,977	17	69.2	+1.4	101	30	38	10	50	1.95	+1.90	1.62	0.0	3	.....	.....	.....	.....	John S. Case
Quinn River Ranch	Humboldt	4,850	8	63.5	.....	94	30	32	10	52	0.15	.....	0.11	0.0	2	18	8	4	SW	F. M. Payne
San Jacinto	Elko	.....	5	.....	.....	.....	.....	32	8	.....	0.78	.....	0.41	0.0	3	13	5	12	NW	Moses Jones
Tecoma	Elko	4,812	32	62.9	-0.9	95	28	26	10	54	0.04	-0.63	0.02	0.0	2	9	13	8	N	Agent So. Pacific Co.
Wells	Elko	5,631	38	.....	.....	98	27	.....	.....	.....	0.00	-0.51	0.03	0.0	0	20	8	2	E	Agent So. Pacific Co.
Winnemucca	Humboldt	4,432	31	65.0	+1.7	95	30	33	8	48	0.03	-0.61	0.03	0.0	1	21	6	3	SW	U. S. Weather Bureau
Means		.....	.....	65.4	.....	.....	.....	.....	.....	.....	0.26	.....	.....	0.0	1	18	8	4	SW	.....
Eastern Section.																				
Cherry Creek	White Pine	6,450	1	63.7	.....	95	30	33	9	44	0.09	.....	0.04	0.0	3	16	14	0	SW	J. H. Leishman
Ely	White Pine	6,421	19	62.8	+2.5	92	30	32	10	52	T	-0.34	T	0.0	0	27	3	0	W	G. C. Hunting
Hamilton H.	White Pine	7,977	3	46.8	.....	77	30	.....	.....	.....	.....	.....	.....	0.0	1	.....	.....	.....	SW	Geo. Allen
Means		.....	.....	57.8	.....	.....	.....	.....	.....	.....	0.03	.....	.....	0.0	1	22	8	0	SW	.....
Central Section.																				
Austin	Lander	6,594	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0	0	.....	.....	.....	.....	F. H. Triplett
Eureka	Eureka	6,500	7	63.3	.....	92	30	30	9	43	T	.....	T	0.0	0	20	6	4	S	Clay Simms
Millet	Nye	.....	2	63.0	.....	93	3	33	8	52	0.09	.....	0.09	0.0	1	21	5	4	W	Fred J. Jones
Potts	Nye	6,990	17	60.4	-4.1	92	3	30	10	52	T	-0.17	T	0.0	0	7	10	13	S	Miss Mamie Potts
Means		.....	.....	62.2	.....	.....	.....	.....	.....	.....	0.03	.....	.....	0.0	0	16	7	7	S	.....
Western Section.																				
Carson Dam	Churchill	4,032	3	68.4	.....	94	3	44	9	43	0.32	.....	0.22	0.0	2	17	11	2	W	J. M. Heizer
Fallon	Churchill	3,965	5	67.8	.....	97	3	43	9	47	0.27	.....	0.27	0.0	2	23	6	1	NW	U. S. Reclamation Serv.
Fernley	Lyon	4,200	2	61.6	-5.2	95	3	29	17	47	0.55	+0.40	0.55	0.0	1	25	3	2	W	U. S. Reclamation Serv.
Gardnerville	Douglas	4,830	10	62.4	.....	94	21	34	10	53	0.01	.....	0.01	0.0	1	19	7	4	S	William Dangberg
Leetville	Churchill	4,020	3	68.0	.....	95	3	43	10	44	0.04	.....	0.04	0.0	1	24	2	4	W	U. S. Reclamation Serv.
Lewers' Ranch	Washoe	5,500	22	60.5	+0.4	88	3	35	4	45	0.20	-0.14	0.20	0.0	2	11	17	2	.....	Ross Lewers
Reno	Washoe	4,532	39	63.6	+2.6	90	2	40	8	42	0.25	+0.01	0.25	0.0	2	24	2	4	W	Section Center
Soda Lake	Churchill	4,005	3	.....	.....	100	2	.....	.....	.....	0.25	.....	0.15	0.0	2	23	4	3	W	U. S. Reclamation Serv.
Wabuska	Lyon	4,347	7	66.6	.....	94	3	38	9	51	0.45	.....	0.45	0.0	1	21	8	1	NW	J. G. Young
Means		.....	.....	65.0	.....	.....	.....	.....	.....	.....	0.26	.....	.....	0.0	1	21	7	2	W	.....
Southern Section.																				
Columbia	Esmeralda	5,750	3	72.6	.....	95	24	41	19	40	0.40	.....	0.40	0.0	1	16	10	4	SE	D. E. Hoffman
Geyser	Lincoln	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0	0	.....	.....	.....	.....	Mrs. J. F. Wambolt
Jean	Lincoln	2,074	2	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0.0	0	.....	.....	.....	.....	Agent Salt Lake Route
Las Vegas	Lincoln	2,033	2	76.2	.....	111	30	37	19	66	0.00	.....	0.00	0.0	0	28	2	0	N	Agent Salt Lake Route
Logan	Lincoln	1,700	3	81.9	.....	112	30	52	20	46	0.00	.....	0.00	0.0	0	24	6	0	S	Chas. Arney
McAfee's Ranch	Esmeralda	4,835	6	66.1	.....	94	25	39	16	48	0.20	.....	0.20	0.0	1	23	4	3	N	G. A. McAfee
Mina	Esmeralda	4,600	3	72.1	.....	103	30	44	7	47	1.81	.....	1.80	0.0	2	17	3	10	W	Agent So. Pacific Co.
Palmetto	Esmeralda	6,780	20	59.6	+0.2	90	24	28	8	47	1.38	+0.78	0.83	0.0	3	21	6	3	E	Isaac McConnell
Tonopah	Nye	6,090	3	67.8	.....	91	24	40	19	30	0.15	.....	0.12	0.0	2	15	14	1	W	U. S. Weather Bureau
Means		.....	.....	70.9	.....	.....	.....	.....	.....	.....	0.49	.....	.....	0.0	1	21	6	3	W	.....
State Means and Extremes.																				
		.....	.....	65.5	+2.3	112	30	24	9	66	0.28	-0.14	1.80	0.0	1	19	7	4	W	.....
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REFERENCES: A small letter placed after the name of a station indicates the number of days missing from the record; for instance, "s" denotes 14 days missing. *Italic figures* indicate that the maximum or minimum occurred on several dates. T indicates trace of precipitation. All records are used in determining State (or district) means. 1, not included in sums and means. 2, rainfall data not included in sums and means.










**SCALE OF SHADES—Inches.**

[White box]	Less than $\frac{1}{2}$
[Horizontal lines box]	$\frac{1}{2}$ to 1
[Diagonal lines box]	More than 1

	Less than $\frac{1}{2}$
	$\frac{1}{2}$ to 1
	More than 1



## DAILY PRECIPITATION FOR JUNE, 1909.

Stations.	Day of Month.																															Total.				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Northern Section.																																				
Battle Mountain																				T													T	0.00		
Beowawe																				0.20													0.20	0.18		
Carlin						0.06							0.06							0.06													0.00	0.00		
Clover Valley						0.01	0.11						T																				0.38	0.10		
Cobre																				0.08													0.10	0.00		
Dutton																			0.10														0.10	0.00		
Elko														0.30																			0.00	0.00		
Golconda																			0.05	1.62	0.28												1.95	0.00		
Halleck																																	0.15	0.00		
Humboldt																		0.04	0.11														0.78	0.04		
Lovelock																			0.02														0.10	0.00		
Paradise Valley																																		0.00	0.00	
Quinn River Ranch																			0.41														0.08	0.00		
San Jacinto																																		0.04	0.00	
Tecoma																			0.02															0.10	0.00	
Wells																																		0.00	0.00	
Willow Point																																		0.00	0.00	
Winnemucca																			T	0.03													0.03	0.00		
Eastern Section.																																				
Cherry Creek																																		0.00	0.00	
Ely																																		T	0.00	
Hamilton																																		T	0.00	
Central Section.																																				
Austin																																		T	0.00	
Eureka																																		T	0.00	
Millet																			0.09														T	0.00		
Potts																																		T	0.00	
Western Section.																																				
Buckskin																			0.04	T													0.04	0.32		
Carson Dam																		0.22	0.10														0.32			
Douglas Ranch																		*	0.27														0.27	0.35		
Fallon																																		0.01	0.01	
Fernley																		0.55															0.30	0.30		
Gardnerville																			T	0.01													0.04	0.04		
Glenbrook																		*	0.30														0.20	0.20		
Leeville																			0.04														0.20	0.20		
Lewers' Ranch																																		0.25	0.25	
Reno																			0.20														0.44	0.44		
Smith																		0.01	0.24														T	0.25	0.25	
Soda Lake																																		0.45	0.45	
Sweetwater																		0.15	0.10														0.45	0.45		
Wabaska																			0.45															0.45	0.45	
Yerington																																				
Southern Section.																																				
Columbia																			0.40														0.40	0.40		
Fletcher																																		0.11	0.11	
Geyser																			0.11															0.00	0.00	
Jean																																		0.00	0.00	
Las Vegas																																		0.00	0.00	
Logan																																				

T indicates trace. \* Amount included in that of the following day.

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